



GE Healthcare

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Technical Publication

**Direction 5343941-8EN
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**GE Healthcare
Definium™ 6000
Pre-Installation**

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IMPORTANT PRECAUTIONS

LANGUAGE

ПРЕДУПРЕЖДЕНИЕ

(BG)

- ТОВА УПЪТВАНЕ ЗА РАБОТА Е НАЛИЧНО САМО НА АНГЛИЙСКИ ЕЗИК.
- АКО ДОСТАВЧИКЪТ НА УСЛУГАТА НА КЛИЕНТА ИЗИСКА ЕЗИК, РАЗЛИЧЕН ОТ АНГЛИЙСКИ, ЗАДЪЛЖЕНИЕ НА КЛИЕНТА Е ДА ОСИГУРИ ПРЕВОД.
- НЕ ИЗПОЛЗВАЙТЕ ОБОРУДВАНЕТО ПРЕДИ ДА СТЕ СЕ КОНСУЛТИРАЛИ И РАЗБРАЛИ УПЪТВАНЕТО ЗА РАБОТА.
- НЕСПАЗВАНЕТО НА ТОВА ПРЕДУПРЕЖДЕНИЕ МОЖЕ ДА ДОВЕДЕ ДО НАРАНЯВАНЕ НА ДОСТАВЧИКА НА УСЛУГАТА, ОПЕРАТОРА ИЛИ ПАЦИЕНТ В РЕЗУЛТАТ НА ТОКОВ УДАР ИЛИ МЕХАНИЧНА ИЛИ ДРУГА ОПАСНОСТ.

警告

(ZH-CN)

- 本维修手册仅提供英文版本。
- 如果维修服务提供商需要非英文版本，客户需自行提供翻译服务。
- 未详细阅读和完全理解本维修手册之前，不得进行维修。
- 忽略本警告可能对维修人员，操作员或患者造成触电、机械伤害或其他形式的伤害。

VÝSTRAHA

(CS)

- TENTO PROVOZNÍ NÁVOD EXISTUJE POUZE V ANGLICKÉM JAZYCE.
- V PŘÍPADĚ, ŽE EXTERNÍ SLUŽBA ZÁKAZNÍKŮM POTŘEBUJE NÁVOD V JINÉM JAZYCE, JE ZAJIŠTĚNÍ PŘEKLADU DO ODPOVÍDAJÍCÍHO JAZYKA ÚKOLEM ZÁKAZNÍKA.
- NESNAŽTE SE O ÚDRŽBU TOHOTO ZAŘÍZENÍ, ANIŽ BYSTE SI PŘEČETLI TENTO PROVOZNÍ NÁVOD A POCHOPILI JEHO OBSAH.
- V PŘÍPADĚ NEDODRŽOVÁNÍ TÉTO VÝSTRAHY MŮŽE DOJÍT K PORANĚNÍ PRACOVNÍKA PRODEJNÍHO SERVISU, OBSLUŽNÉHO PERSONÁLU NEBO PACIENTŮ Vlivem ELEKTRICKÉHO PROUDU, RESPEKTIVE Vlivem MECHANICKÝCH ČI JINÝCH RIZIK.

ADVARSEL

(DA)

- DENNE SERVICEMANUAL FINDES KUN PÅ ENGELSK.
- HVIS EN KUNDES TEKNIKER HAR BRUG FOR ET ANDET SPROG END ENGELSK, ER DET KUNDENS ANSVAR AT SØRGE FOR OVERSÆTTELSE.
- FORSØG IKKE AT SERVICERE Udstyret MEDMINDRE DENNE SERVICEMANUAL HAR VÆRET KONSULTERET OG ER FORSTÅET.
- MANGLENDE OVERHOLDELSE AF DENNE ADVARSEL KAN MEDFØRE SKADE PÅ GRUND AF ELEKTRISK, MEKANISK ELLER ANDEN FARE FOR TEKNIKEREN, OPERATØREN ELLER PATIENTEN.

WAARSCHUWING

(NL)

- DEZE ONDERHOUDSHANDLEIDING IS ENKEL IN HET ENGELS VERKRIJGBAAR.
- ALS HET ONDERHOUDSPERSONEEL EEN ANDERE TAAL VEREIST, DAN IS DE KLANT VERANTWOORDELIJK VOOR DE VERTALING ERVAN.
- PROBEER DE APPARATUUR NIET TE ONDERHOUDEN VOORDAT DEZE ONDERHOUDSHANDLEIDING WERD GERAADPLEEGD EN BEGREPEN IS.
- INDIEN DEZE WAARSCHUWING NIET WORDT OPGEVOLGD, ZOU HET ONDERHOUDSPERSONEEL, DE OPERATOR OF EEN PATIËNT GEWOND KUNNEN RAKEN ALS GEVOLG VAN EEN ELEKTRISCHE SCHOK, MECHANISCHE OF ANDERE GEVAREN.

WARNING

(EN)

- THIS SERVICE MANUAL IS AVAILABLE IN ENGLISH ONLY.
- IF A CUSTOMER'S SERVICE PROVIDER REQUIRES A LANGUAGE OTHER THAN ENGLISH, IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE TRANSLATION SERVICES.
- DO NOT ATTEMPT TO SERVICE THE EQUIPMENT UNLESS THIS SERVICE MANUAL HAS BEEN CONSULTED AND IS UNDERSTOOD.
- FAILURE TO HEED THIS WARNING MAY RESULT IN INJURY TO THE SERVICE PROVIDER, OPERATOR OR PATIENT FROM ELECTRIC SHOCK, MECHANICAL OR OTHER HAZARDS.

HOIATUS

(ET)

- KÄESOLEV TEENINDUSJUHEND ON SAADAVAL AINULT INGLISE KEELES.
- KUI KLIENDITEENINDUSE OSUTAJA NÕUAB JUHENDIT INGLISE KEELEST ERINEVAS KEELES, VASTUTAB KLIENT TÖLKETEENUSE OSUTAMISE EEST.
- ÄRGE ÜRITAGE SEADMEID TEENINDADA ENNE EELNEVALT KÄESOLEVA TEENINDUSJUHENDIGA TUTVUMIST JA SELLEST ARU SAAMIST.
- KÄESOLEVA HOIATUSE EIRAMINE VÕIB PÕHJUSTADA TEENUSEOSUTAJA, OPERAATORI VÕI PATSIENDI VIGASTAMIST ELEKTRILÖÖGI, MEHAANILISE VÕI MUU OHU TAGAJÄRJEL.

VAROITUS

(FI)

- TÄMÄ HUOLTO-OHJE ON SAATAVILLA VAIN ENGLANNIKSI.
- JOS ASIAKKAAN HUOLTOHENKILÖSTÖ VAATII MUUTA KUIN ENGLANNINKIELISTÄ MATERIAALIA, TARVITTAVAN KÄÄNNÖKSEN HANKKIMINEN ON ASIAKKAAN VASTUULLA.
- ÄLÄ YRITÄ KORJATA LAITTEISTOA ENNEN KUIN OLET VARMASTI LUKENUT JA YMMÄRTÄNYT TÄMÄN HUOLTO-OHJEEN.
- MIKÄLI TÄTÄ VAROITUSTA EI NOUDATETA, SEURAUKSENA VOI OLLA HUOLTOHENKILÖSTÖN, LAITTEISTON KÄYTTÄJÄN TAI POTILAAN VAHINGOITTUMINEN SÄHKÖISKUN, MEKAANISEN VIAN TAI MUUN VAARATILANTEEN VUOKSI.

ATTENTION

(FR)

- CE MANUEL DE MAINTENANCE N'EST DISPONIBLE QU'EN ANGLAIS.
- SI LE TECHNICIEN DU CLIENT A BESOIN DE CE MANUEL DANS UNE AUTRE LANGUE QUE L'ANGLAIS, C'EST AU CLIENT QU'IL INCOMBE DE LE FAIRE TRADUIRE.
- NE PAS TENTER D'INTERVENTION SUR LES ÉQUIPEMENTS TANT QUE LE MANUEL SERVICE N'A PAS ÉTÉ CONSULTÉ ET COMPRIS.
- LE NON-RESPECT DE CET AVERTISSEMENT PEUT ENTRAÎNER CHEZ LE TECHNICIEN, L'OPÉRATEUR OU LE PATIENT DES BLESSURES DUES À DES DANGERS ÉLECTRIQUES, MÉCANIQUES OU AUTRES.

WARNUNG

(DE)

- DIESE SERVICEANLEITUNG EXISTIERT NUR IN ENGLISCHER SPRACHE.
- FALLS EIN FREMDER KUNDENDIENST EINE ANDERE SPRACHE BENÖTIGT, IST ES AUFGABE DES KUNDEN FÜR EINE ENTSPRECHENDE ÜBERSETZUNG ZU SORGEN.
- VERSUCHEN SIE NICHT DIESE ANLAGE ZU WARTEN, OHNE DIESE SERVICEANLEITUNG GELESEN UND VERSTANDEN ZU HABEN.
- WIRD DIESE WARNUNG NICHT BEACHTET, SO KANN ES ZU VERLETZUNGEN DES KUNDENDIENSTTECHNIKERS, DES BEDIENERS ODER DES PATIENTEN DURCH STROMSCHLÄGE, MECHANISCHE ODER SONSTIGE GEFAHREN KOMMEN.

ΠΡΟΕΙΔΟΠΟΙΗΣΗ

(EL)

- ΤΟ ΠΑΡΟΝ ΕΓΧΕΙΡΙΔΙΟ ΣΕΡΒΙΣ ΔΙΑΤΙΘΕΤΑΙ ΣΤΑ ΑΓΓΛΙΚΑ ΜΟΝΟ.
- ΕΑΝ ΤΟ ΑΤΟΜΟ ΠΑΡΟΧΗΣ ΣΕΡΒΙΣ ΕΝΟΣ ΠΕΛΑΤΗ ΑΠΑΙΤΕΙ ΤΟ ΠΑΡΟΝ ΕΓΧΕΙΡΙΔΙΟ ΣΕ ΓΛΩΣΣΑ ΕΚΤΟΣ ΤΩΝ ΑΓΓΛΙΚΩΝ, ΑΠΟΤΕΛΕΙ ΕΥΘΥΝΗ ΤΟΥ ΠΕΛΑΤΗ ΝΑ ΠΑΡΕΧΕΙ ΥΠΗΡΕΣΙΕΣ ΜΕΤΑΦΡΑΣΗΣ.
- ΜΗΝ ΕΠΙΧΕΙΡΗΣΕΤΕ ΤΗΝ ΕΚΤΕΛΕΣΗ ΕΡΓΑΣΙΩΝ ΣΕΡΒΙΣ ΣΤΟΝ ΕΞΟΠΛΙΣΜΟ ΕΚΤΟΣ ΕΑΝ ΕΧΕΤΕ ΣΥΜΒΟΥΛΕΥΤΕΙ ΚΑΙ ΕΧΕΤΕ ΚΑΤΑΝΟΗΣΕΙ ΤΟ ΠΑΡΟΝ ΕΓΧΕΙΡΙΔΙΟ ΣΕΡΒΙΣ.
- ΕΑΝ ΔΕ ΛΑΒΕΤΕ ΥΠΟΨΗ ΤΗΝ ΠΡΟΕΙΔΟΠΟΙΗΣΗ ΑΥΤΗ, ΕΝΔΕΧΕΤΑΙ ΝΑ ΠΡΟΚΛΗΘΕΙ ΤΡΑΥΜΑΤΙΣΜΟΣ ΣΤΟ ΑΤΟΜΟ ΠΑΡΟΧΗΣ ΣΕΡΒΙΣ, ΣΤΟ ΧΕΙΡΙΣΤΗ Ή ΣΤΟΝ ΑΣΘΕΝΗ ΑΠΟ ΗΛΕΚΤΡΟΠΛΗΞΙΑ, ΜΗΧΑΝΙΚΟΥΣ Ή ΑΛΛΟΥΣ ΚΙΝΔΥΝΟΥΣ.

FIGYELMEZTETÉS
(HU)

- EZEN KARBANTARTÁSI KÉZIKÖNYV KIZÁRÓLAG ANGOL NYELVEN ÉRHETŐ EL.
- HA A VEVŐ SZOLGÁLTATÓJA ANGOLTÓL ELTÉRŐ NYELVRE TART IGÉNYT, AKKOR A VEVŐ FELELŐSSÉGE A FORDÍTÁS ELKÉSZÍTTETÉSE.
- NE PRÓBÁLJA ELKEZDENI HASZNÁLNI A BERENDEZÉST, AMÍG A KARBANTARTÁSI KÉZIKÖNYVBEN LEÍRTAKAT NEM ÉRTELMEZTÉK.
- EZEN FIGYELMEZTETÉS FIGYELMEN KÍVÜL HAGYÁSA A SZOLGÁLTATÓ, MŰKÖDTETŐ VAGY A BETEG ÁRAMÜTÉS, MECHANIKAI VAGY EGYÉB VESZÉLYHELYZET MIATTI SÉRÜLÉSÉT EREDMÉNYEZHETI.

AÐVÖRUN
(IS)

- ÞESSI ÞJÓNUSTUHANDBÓK ER EINGÖNGU FÁANLEG Á ENSKU.
- EF AÐ ÞJÓNUSTUVEITANDI VIÐSKIPTAMANNS ÞARFNAST ANNAS TUNGUMÁLS EN ENSKU, ER ÞAÐ SKYLDA VIÐSKIPTAMANNS AÐ SKAFFA TUNGUMÁLAPJÓNUSTU.
- REYNIÐ EKKI AÐ AFGREIÐA TÆKIÐ NEMA AÐ ÞESSI ÞJÓNUSTUHANDBÓK HEFUR VERIÐ SKOÐUÐ OG SKILIN.
- BROT Á SINNA ÞESSARI AÐVÖRUN GETUR LEITT TIL MEIÐSLA Á ÞJÓNUSTUVEITANDA, STJÓRNANDA EÐA SJÚKLINGS FRÁ RAFLOSTI, VÉLRÆNU EÐA ÖÐRUM ÁHÆTTUM.

AVVERTENZA
(IT)

- IL PRESENTE MANUALE DI MANUTENZIONE È DISPONIBILE SOLTANTO IN INGLESE.
- SE UN ADDETTO ALLA MANUTENZIONE ESTERNO ALLA GEMS RICHIEDE IL MANUALE IN UNA LINGUA DIVERSA, IL CLIENTE È TENUTO A PROVVEDERE DIRETTAMENTE ALLA TRADUZIONE.
- SI PROCEDA ALLA MANUTENZIONE DELL'APPARECCHIATURA SOLO DOPO AVER CONSULTATO IL PRESENTE MANUALE ED AVERNE COMPRESO IL CONTENUTO.
- IL NON RISPETTO DELLA PRESENTE AVVERTENZA POTREBBE FAR COMPIERE OPERAZIONI DA CUI DERIVINO LESIONI ALL'ADDETTO ALLA MANUTENZIONE, ALL'UTILIZZATORE ED AL PAZIENTE PER FOLGORAZIONE ELETTRICA, PER URTI MECCANICI OD ALTRI RISCHI.

警告

(JA)

- このサービスマニュアルには英語版しかありません。
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경고

(KO)

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BRĪDINĀJUMS

(LV)

- ŠĪ APKALPES ROKASGRĀMATA IR PIEEJAMA TIKAI ANGLŪ VALODĀ.
- JA KLIENTA APKALPES SNIEDZĒJAM NEPIECIEŠAMA INFORMĀCIJA CITĀ VALODĀ, NEVIS ANGLŪ, KLIENTA PIENĀKUMS IR NODROŠINĀT TULKOŠANU.
- NEVEICIET APRĪKOJUMA APKALPI BEZ APKALPES ROKASGRĀMATAS IZLASĪŠANAS UN SAPRAŠANAS.
- ŠĪ BRĪDINĀJUMA NEIEVĒROŠANA VAR RADĪT ELEKTRISKĀS STRĀVAS TRIECIENA, MEHĀNISKU VAI CITU RISKU IZRAISĪTU TRAUMU APKALPES SNIEDZĒJAM, OPERATORAM VAI PACIENTAM.

ĮSPĖJIMAS

(LT)

- ŠIS EKSPLOATAVIMO VADOVAS YRA PRIEINAMAS TIK ANGLŲ KALBA.
- JEI KLIENTO PASLAUGŲ TIEKĖJAS REIKALAUJA VADOVO KITA KALBA – NE ANGLŲ, NUMATYTI VERTIMO PASLAUGAS YRA KLIENTO ATSAKOMYBĖ.
- NEMĖGINKITE ATLIKTI ĮRANGOS TECHNINĖS PRIEŽIŪROS, NEBENT ATSIŽVELGĖTE Į ŠĮ EKSPLOATAVIMO VADOVĄ IR JĮ SUPRATOTE.
- JEI NEATKREIPSITE DĖMESIO Į ŠĮ PERSPĖJIMĄ, GALIMI SUŽALOJIMAI DĖL ELEKTROS ŠOKO.
- MECHANINIŲ AR KITŲ PAVOJŲ PASLAUGŲ TIEKĖJUI, OPERATORIUI AR PACIENTUI.

ADVARSEL

(NO)

- DENNE SERVICEHÅNDBOKEN FINNES BARE PÅ ENGELSK.
- HVIS KUNDENS SERVICELEVERANDØR TRENGER ET ANNET SPRÅK, ER DET KUNDENS ANSVAR Å SØRGE FOR OVERSETTELSE.
- IKKE FORSØK Å REPARERE UTSTYRET UTEN AT DENNE SERVICEHÅNDBOKEN ER LEST OG FORSTÅTT.
- MANGLENDE HENSYN TIL DENNE ADVARSELEN KAN FØRE TIL AT SERVICELEVERANDØREN, OPERATØREN ELLER PASIENTEN SKADES PÅ GRUNN AV ELEKTRISK STØT, MEKANISKE ELLER ANDRE FARER.

OSTRZEŻENIE

(PL)

- NINIEJSZY PODRĘCZNIK SERWISOWY DOSTĘPNY JEST JEDYNNIE W JĘZYKU ANGIELSKIM.
- JEŚLI DOSTAWCA USŁUG KLIENTA WYMAGA JĘZYKA INNEGO NIŻ ANGIELSKI, ZAPEWNIENIE USŁUGI TŁUMACZENIA JEST OBOWIĄZKIEM KLIENTA.
- NIE PRÓBOWAĆ SERWISOWAĆ WYPOSAŻENIA BEZ ZAPOZNANIA SIĘ I ZROZUMIENIA NINIEJSZEGO PODRĘCZNIKA SERWISOWEGO.
- NIEZASTOSOWANIE SIĘ DO TEGO OSTRZEŻENIA MOŻE SPOWODOWAĆ URAZY DOSTAWCY USŁUG, OPERATORA LUB PACJENTA W WYNIKU PORĄŻENIA ELEKTRYCZNEGO, ZAGROŻENIA MECHANICZNEGO BĄDŹ INNEGO.

ATENÇÃO

(PT)

- ESTE MANUAL DE ASSISTÊNCIA TÉCNICA SÓ SE ENCONTRA DISPONÍVEL EM INGLÊS.
- SE QUALQUER OUTRO SERVIÇO DE ASSISTÊNCIA TÉCNICA, QUE NÃO A GEMS, SOLICITAR ESTES MANUAIS NOUTRO IDIOMA, É DA RESPONSABILIDADE DO CLIENTE FORNECER OS SERVIÇOS DE TRADUÇÃO.
- NÃO TENHA TENTADO REPARAR O EQUIPAMENTO SEM TER CONSULTADO E COMPREENDIDO ESTE MANUAL DE ASSISTÊNCIA TÉCNICA
- O NÃO CUMPRIMENTO DESTES AVISOS PODE POR EM PERIGO A SEGURANÇA DO TÉCNICO, OPERADOR OU PACIENTE DEVIDO A CHOQUES ELÉTRICOS, MECÂNICOS OU OUTROS.

ATENȚIE

(RO)

- ACEST MANUAL DE SERVICE ESTE DISPONIBIL NUMAI ÎN LIMBA ENGLEZĂ.
- DACĂ UN FURNIZOR DE SERVICII PENTRU CLIEȚI NECESITĂ O ALTĂ LIMBĂ DECÂT CEA ENGLEZĂ, ESTE DE DATORIA CLIENTULUI SĂ FURNIZEZE O TRADUCERE.
- NU ÎNCERCAȚI SĂ REPARAȚI ECHIPAMENTUL DECÂT ULTERIOR CONSULTĂRII ȘI ÎNȚELEGERII ACESTUI MANUAL DE SERVICE.
- IGNORAREA ACESTUI AVERTISMENT AR PUTEA DUCE LA RĂNIREA DEPARATORULUI, OPERATORULUI SAU PACIENTULUI ÎN URMA PERICOLELOR DE ELECTROCUTARE, MECANICE SAU DE ALTĂ NATURĂ.

ОСТОРОЖНО!

(RU)

- ДАННОЕ РУКОВОДСТВО ПО ОБСЛУЖИВАНИЮ ПРЕДЛАГАЕТСЯ ТОЛЬКО НА АНГЛИЙСКОМ ЯЗЫКЕ.
- ЕСЛИ СЕРВИСНОМУ ПЕРСОНАЛУ КЛИЕНТА НЕОБХОДИМО РУКОВОДСТВО НЕ НА АНГЛИЙСКОМ, А НА КАКОМ-ТО ДРУГОМ ЯЗЫКЕ, КЛИЕНТУ СЛЕДУЕТ САМОСТОЯТЕЛЬНО ОБЕСПЕЧИТЬ ПЕРЕВОД.
- ПЕРЕД ОБСЛУЖИВАНИЕМ ОБОРУДОВАНИЯ ОБЯЗАТЕЛЬНО ОБРАТИТЕСЬ К ДАННОМУ РУКОВОДСТВУ И ПОЙМИТЕ ИЗЛОЖЕННЫЕ В НЕМ СВЕДЕНИЯ.
- НЕСОБЛЮЖДЕНИЕ ТРЕБОВАНИЙ ДАННОГО ПРЕДУПРЕЖДЕНИЯ МОЖЕТ ПРИВЕСТИ К ТОМУ, ЧТО СПЕЦИАЛИСТ ПО ОБСЛУЖИВАНИЮ, ОПЕРАТОР ИЛИ ПАЦИЕНТ ПОЛУЧАТ УДАР ЭЛЕКТРИЧЕСКИМ ТОКОМ, МЕХАНИЧЕСКУЮ ТРАВМУ ИЛИ ДРУГОЕ ПОВРЕЖДЕНИЕ.

UPOZORNENIE

(SK)

- TENTO NÁVOD NA OBSLUHU JE K DISPOZÍCII LEN V ANGLIČTINE.
- AK ZÁKAZNÍKOV POSKYTOVATEĽ SLUŽIEB VYŽADUJE INÝ JAZYK AKO ANGLIČTINU, POSKYTNUTIE PREKLADATEĽSKÝCH SLUŽIEB JE ZODPOVEDNOSŤOU ZÁKAZNÍKA.
- NEPOKÚŠAJTE SA O OBSLUHU ZARIADENIA SKÔR, AKO SI NEPREČÍTATE NÁVOD NA OBLUHU A NEPOROZUMIETE MU.
- ZANEDBANIE TOHTO UPOZORNENIA MÔŽE VYÚSTIŤ DO ZRANENIA POSKYTOVATEĽA SLUŽIEB, OBSLUHUJÚCEJ OSOBY ALEBO PACIENTA ELEKTRICKÝM PRÚDOM, DO MECHANICKÉHO ALEBO INÉHO NEBEZPEČENSTVA.

ATENCION

(ES)

- ESTE MANUAL DE SERVICIO SOLO EXISTE EN INGLES.
- SI ALGUN PROVEEDOR DE SERVICIOS AJENO A GEMS SOLICITA UN IDIOMA QUE NO SEA EL INGLES, ES RESPONSABILIDAD DEL CLIENTE OFRECER UN SERVICIO DE TRADUCCION.
- NO SE DEBERA DAR SERVICIO TECNICO AL EQUIPO, SIN HABER CONSULTADO Y COMPRENDIDO ESTE MANUAL DE SERVICIO.
- LA NO OBSERVANCIA DEL PRESENTE AVISO PUEDE DAR LUGAR A QUE EL PROVEEDOR DE SERVICIOS, EL OPERADOR O EL PACIENTE SUFRAN LESIONES PROVOCADAS POR CAUSAS ELÉCTRICAS, MECÁNICAS O DE OTRA NATURALEZA.

VARNING

(SV)

- DEN HÄR SERVICEHANDBOKEN FINNS BARA TILLGÄNGLIG PÅ ENGELSKA.
- OM EN KUNDS SERVICETEKNIKER HAR BEHOV AV ETT ANNAT SPRÅK ÄN ENGELSKA ANSVARAR KUNDEN FÖR ATT TILLHANDAHÅLLA ÖVERSÄTTNINGSTJÄNSTER.
- FÖRSÖK INTE UTFÖRA SERVICE PÅ UTRUSTNINGEN OM DU INTE HAR LÄST OCH FÖRSTÅR DEN HÄR SERVICEHANDBOKEN.
- OM DU INTE TAR HÄNSYN TILL DEN HÄR VARNINGEN KAN DET RESULTERA I SKADOR PÅ SERVICETEKNIKERN, OPERATÖREN ELLER PATIENTEN TILL FÖLJD AV ELEKTRISKA STÖTAR, MEKANISKA FAROR ELLER ANDRA FAROR.

DİKKAT

(TR)

- BU SERVİS KILAVUZUNUN SADECE İNGİLİZCESİ MEVCUTTUR.
- EĞER MÜŞTERİ TEKNİSYENİ BU KILAVUZU İNGİLİZCE DIŞINDA BİR BAŞKA LİSANDAN TALEP EDERSE, BUNU TERCÜME ETTİRMEK MÜŞTERİYE DÜŞER.
- SERVİS KILAVUZUNU OKUYUP ANLAMADAN EKİPMANLARA MÜDAHALE ETMEYİNİZ.
- BU UYARIYA UYULMAMASI, ELEKTRİK, MEKANİK VEYA DİĞER TEHLİKELERDEN DOLAYI TEKNİSYEN, OPERATÖR VEYA HASTANIN YARALANMASINA YOL AÇABİLİR.

DAMAGE IN TRANSPORTATION

All packages should be closely examined at time of delivery. If damage is apparent write "Damage In Shipment" on ALL copies of the freight or express bill BEFORE delivery is accepted or "signed for" by a GE representative or hospital receiving agent. Whether noted or concealed, damage MUST be reported to the carrier immediately upon discovery, or in any event, within 14 days after receipt, and the contents and containers held for inspection by the carrier. A transportation company will not pay a claim for damage if an inspection is not requested within this 14 day period.

Call GEHC Global Parts 1-800-548-3366 and select option 8, immediately after damage is found. At this time be ready to supply name of carrier, delivery date, consignee name, freight or express bill number, item damaged and extent of damage.

Complete instructions regarding claim procedure are found in Section S of the Policy And Procedures Bulletins.

14 July 1993

CERTIFIED ELECTRICAL CONTRACTOR STATEMENT

All electrical Installations that are preliminary to positioning of the equipment at the site prepared for the equipment shall be performed by licensed electrical contractors. In addition, electrical feeds into the Power Distribution Unit shall be performed by licensed electrical contractors. Other connections between pieces of electrical equipment, calibrations and testing shall be performed by qualified GE Healthcare personnel. The products involved (and the accompanying electrical installations) are highly sophisticated, and special engineering competence is required. In performing all electrical work on these products, GE will use its own specially trained field engineers. All of GE's electrical work on these products will comply with the requirements of the applicable electrical codes.

The purchaser of GE equipment shall only utilize qualified personnel (i.e., GE's field engineers, personnel of third-party service companies with equivalent training, or licensed electricians) to perform electrical servicing on the equipment.

IMPORTANT...X-RAY PROTECTION

X-ray equipment, if not properly used, may cause injury. Accordingly, the instructions herein contained should be thoroughly read and understood by everyone who will use the equipment before you attempt to place this equipment in operation. The General Electric Company, Healthcare Group, will be glad to assist and cooperate in placing this equipment in use.

Although this apparatus incorporates a high degree of protection against x-radiation other than the useful beam, no practical design of equipment can provide complete protection. Nor can any practical design compel the operator to take adequate precautions to prevent the possibility of any persons carelessly exposing themselves or others to radiation.

It is important that anyone having anything to do with x-radiation be properly trained and fully acquainted with the recommendations of the National Council on Radiation Protection and Measurements as published in NCRP Reports available from NCRP Publications, 7910 Woodmont Avenue, Room 1016, Bethesda, Maryland 20814, and of the International Commission on Radiation Protection, and of any other local authorities, and take adequate steps to protect against injury.

The equipment is sold with the understanding that the General Electric Company, Healthcare Group, its agents, and representatives have no responsibility for injury or damage which may result from improper use of the equipment.

Various protective materials and devices are available. It is urged that such materials or devices be used.

OMISSIONS & ERRORS

Customers, please contact your GE Sales or Service representatives.

GE personnel, please use the GEHC Itrack Process to report all omissions, errors, and defects in this publication.

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Revision History

Revision	Date	Reason for change
1	2009/06/02	First release
2	2009/07/14	Update the room layout
3	2009/07/16	Update the Minimum Ceiling height requirement for extension OTS
4	2009/08/07	Update table with portable detector photo in page 30 Update height requirement and its degradation/risks in page 37. Update table, wall stand and bridge dimensions in page 58. Update Fig 5-17 to add the distance information between the bottom of carriage and the ceiling. Remove the key points statement in room layouts and add its information to page 37. Add the content of "Network in and working" in checklist, page 114 Add the sentence to ask siting specialist to use the usable length in the room layout calculation in page 116. Rearrange the Power Distribution components statements in page 41. Add dimension informations for Image Pasting Barrier and Flex DT. Add detailed rail length and weight data Update wallstand anchors discription Update Cabinet service area requirements. Update the dimension data of grid holder. Correct typing error.
5	2012/03/18	<ol style="list-style-type: none"> 1. Add "1.4 Equipment Classifications" into "Section 1.0 Safety & Hazard Information". 2. Add 2 Notes into "2.1Broadband Network Connection". 3. Update parameters in Page 34. 4. Updated Light Specification in Page 35.

List of Effected Pages

PAGES	REVISION	PAGES	REVISION
1 through 122	5		

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Preface

Publication Conventions

Standardized conventions for representing information is a uniform way of communicating information to a reader in a consistent manner. Conventions are used so that the reader can easily recognize the actions or decisions that must be made. There are a number of character and paragraph styles used in this publication to accomplish this task. Please become familiar with them before proceeding forward.

It is important that you read and understand hazard statements, and not just ignore them.

Section 1.0 Safety & Hazard Information

Proper product safety labeling allows a person to safely use or service a product. The format and style for safety communications reflected in this publication represents the harmonization of IEC/ISO 3864 and ANSI Z535 standards.

Within this publication, different paragraph and character styles are used to indicate potential hazards. Paragraph prefixes, such as hazard, caution, danger and warning, are used to identify important safety information. Text (Hazard) styles are applied to the paragraph contents that are applicable to each specific safety statement.

1.1 Hazard Messages

Any action that will, or could potentially cause personal injury will be preceded by the safety alert symbol and an appropriate signal word. The safety alert symbol is the triangle with an exclamation mark within it. It is always used next to the signal word to indicate the severity of the hazard. Together, they are used to indicate a hazard exists.

Signal words describe the severity of possible human injuries that may be encountered. The alert symbol and signal word are placed immediately before any paragraph they affect. Safety information includes:

- 1.) Signal Word - The seriousness level of the hazard.
- 2.) Symbol or Pictorial - The consequence of interaction with the hazard.
- 3.) Word Message:
 - a.) The nature of the hazard (i.e. the type of hazard).
 - b.) How to avoid the hazard.

The safety alert symbol is not used when an action can only cause equipment damage.

1.2 Text Format of Signal Words

DANGER - INDICATES AN IMMINENTLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY. THIS SIGNAL WORD IS TO BE LIMITED TO THE MOST EXTREME SITUATIONS.

WARNING - INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.




































Caution - Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE - Indicates information or a company policy that relates directly or indirectly to the safety of personnel or protection of property. This signal word is associated directly with a hazard or hazardous situation and is used in place of 'DANGER,' 'WARNING,' or 'CAUTION.' It can include:

- Destruction of a disk drive
- Potential for internal mechanical damage, such as to a X-ray tube

1.3 Symbols and Pictorials Used

The following Symbols and Pictorials may be used in this publication. These graphical icons (symbols) may be used to make you aware of specific types of hazards that could possibly cause harm.

NOTICE	CAUTION	WARNING	DANGER	
 keep_up	 magnetic	 biohazard	 compressgas	 ppe-hearing
 fragile	 impact	 corrosive	 heavyobject	 ppe-2people
 static_elec	 heat	 general	 laser	 ppe-respiratory
 keep_dry	 pinch	 radiation	 poisongas	 ppe-loto
 general	 explosive	 electrical	 flammable	 ppe-eye
 torque	 crush/mechanical	 tipping	 Read Manual	 ppe-gloves
 ce	 instuction	 poisonmatl	 entanglement	 instuction

1.4 Equipment Classifications

The following equipment classifications are applicable to the product:

- Equipment classification with respect to protection from electric shock: Class I
- Equipment classification with respect to protection from electric shock: Class I
- Degree of protection against ingress of liquids: Not classified
- Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with nitrous oxide
- Mode of operation: Continuous operation with intermittent loading

Section 2.0 Publication Conventions

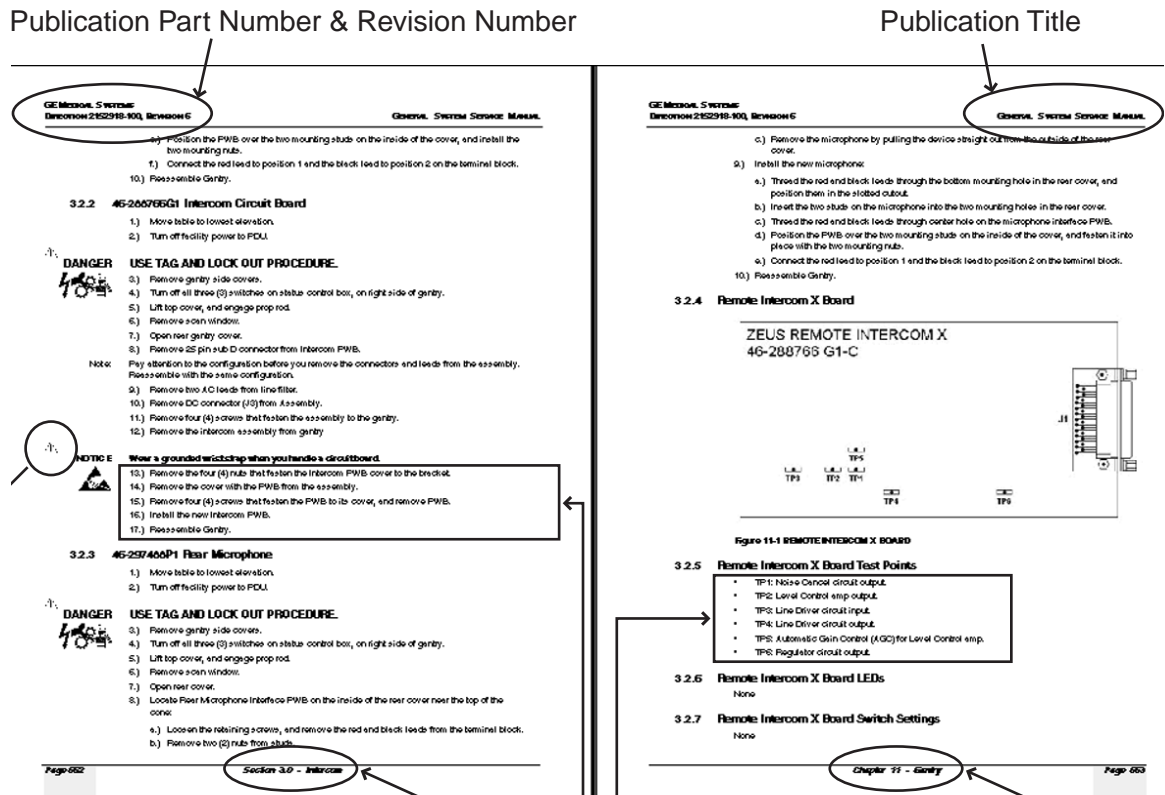
2.1 General Paragraph and Character Styles

Prefixes are used to highlight important non-safety related information. Paragraph prefixes (such as Purpose, Example, Comment or Note) are used to identify important but non-safety related information. Text styles are also applied to text within each paragraph modified by the specific prefix.

EXAMPLES OF PREFIXES USED FOR GENERAL INFORMATION:

- Purpose: Introduces and provides meaning as to the information contained within the chapter, section or subsection (such as used at the beginning this chapter, for example).
- Note: Conveys information that should be considered important to the reader.
- Example: Used to make the reader aware that the paragraph(s) that follow are examples of information possibly stated previously.
- Comment: *Represents “additional” information that may or may not be relevant to your situation.*

2.2 Page Layout



The current section and its title are always shown in the footer of the left (even) page.

An exclamation point in a triangle is used to indicate important information to the user.

Paragraphs preceded by **Alphanumeric** characters (e.g. numbers) contain information that must be followed in a **specific order**.

The current chapter and its title are always shown in the footer of the right (odd) page.

Paragraphs preceded by a **symbol** (e.g. bullets) contain information that has **no specific order**.

Figure 0-1 Definium 6000 Component Identification

Headers and footers in this publication are designed to allow you to quickly identify your location. The document part number and revision number appear in every header on every page. Odd numbered page footers indicate the current chapter, its title and current page number. Even numbered page footers show the current section and its title, as well as the current page number.

2.3 Computer Screen Output/Input Text Character Styles

Within this publication, mono-spaced character styles (fonts) are used to indicate computer text that is either screen input or output. Mono-spaced fonts, such as courier, are used to indicate text direction. When you type at your keyboard, you are generating computer input. Occasionally you will see the math operator “greater-than” and “less-than” symbols used to indicate the start and finish of variable output. When reading text generated by the computer, you are reading it as computer generated output. In addition to direction, characters are italicized (e.g. *italics*) to indicate information specific to your system or site.

Example: Fixed Output	This paragraph's font represents computer generated screen "fixed" output. Its output is fixed from the sense that it does not vary from application to application. It is the most commonly used style used to indicate filenames, paths and text that do not change from system to system. The character style used is a fixed width such as courier.
Example: Variable Output	<i>This paragraph's font represents computer screen output that is "variable". It is used to represent output that varies from application to application or system to system. Variable output is sometimes found placed between greater-than and less-than operators for clarification. For example: <variable_output> or <3.45.120.3>. In both cases, the < and > operators are not part of the actual input.</i>
Example: Fixed Input	This paragraph's font represents fixed input. It is computer input that is typed-in via the keyboard. Typed input that does not vary from application to application or system to system. Fixed text the user is required to supply as input. For example: cd /usr/3p
Example: Variable Input	<i>This paragraph's font represents computer input that can vary from application to application or system to system. With variable text, the user is required to supply system dependent input or information. Variable input sometimes is placed between greater-than and less-than operators. For example: <variable_input>. In these cases, the (<>) operators would be dropped prior to input. For example: ypcat hosts grep <3.45.120.3> would be typed into the computer as</i> <div style="text-align: center;">ypcat hosts grep 3.45.120.3</div> <i>without the greater-than and less-than operators.</i>

2.4 Buttons, Switches and Keyboard Inputs (Hard & Soft Keys)

Different character styles are used to indicate actions requiring the reader to press either a hard or soft button, switch or key. Physical hardware, such as buttons and switches, are called hard keys because they are hard wired or mechanical in nature. A keyboard or on/off switch would be a hard key. Software or computer generated buttons are called soft keys because they are software generated. Software driven menu buttons are an example of such keys. Soft and hard keys are represented differently in this publication.

Example: Hard Keys	A power switch <u>ON/OFF</u> or a keyboard key like <u>ENTER</u> is indicated by applying a character style that uses both over and under-lined bold text. This is a hard key.
Example: Soft Keys	Whereas the computer <u>MENU</u> button that you would click with your mouse or touch with your hand uses over and under-lined regular text. This is a soft key.

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Chapter 1 - Introduction

Section 1.0 Objective and Scope of this Manual

This document is intended as a guide and informational resource for planning and properly preparing a location for the installation of a Definium™ 6000 system.

Section 2.0 Avoiding Unnecessary Expenses and Delays

To avoid unnecessary expenses and delays, use the “Pre-Installation” checklist located in [Chapter 7](#) to determine if you are ready for the installation to begin. Once you believe that your room/location is ready for installation to begin, complete the “Pre-Installation” checklist. The checklist is an important tool that helps verify that nothing has been missed. The checklist summarizes the preparations and allows you to record a permanent record of the activities that have taken place.

Section 3.0 An Overview of the Pre-Installation Process

Pre-installation is a co-operative effort between the customer/purchaser and GE Healthcare (GEHC). Complete the checklists contained in this manual. They are an important part of the pre-installation process. The checklists summarize the required preparations and verify the completion of the pre-installation procedures.

[Figure 1-1](#) outlines the information in this document and its place in the pre-installation process.

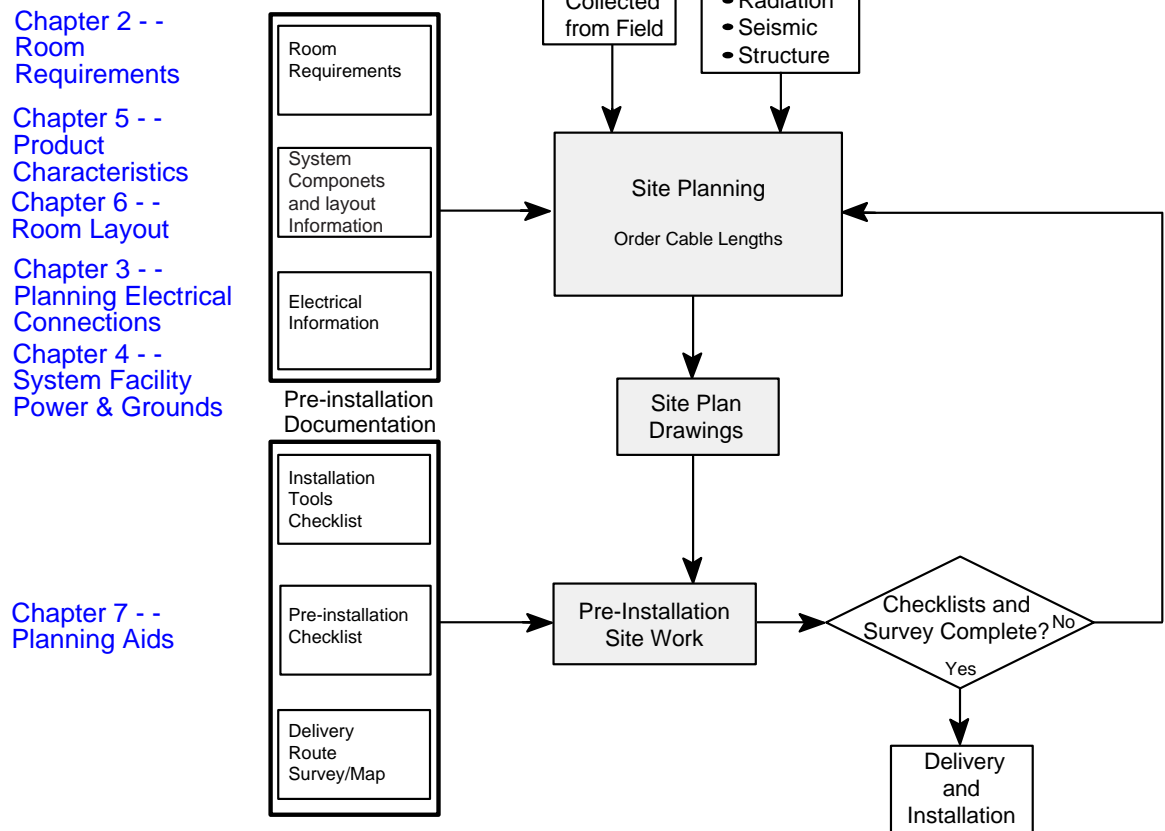


Figure 1-1 Pre-Installation Overtable

Section 4.0 Responsibility of Purchaser/Customer

To ensure that the installation of a Definium™ 6000 system meets the purchaser or Customer expectations, it is important to determine who will take responsibility for various items in the course of the system installation process. To aid you in determining these responsibilities, review the following checklists with the customer and assign responsibilities as appropriate:

- Tools and Equipment Checklist (see [page 98](#))
- Pre-Installation Checklist (see [page 109](#))
- Networkflow Audit Checklist (see [page 100](#))

Section 5.0 Contract Changes

Be sure to inform the customer that the cost of any alterations or modifications not specified in the sales contract are the responsibility of the customer.

Section 6.0

Responsibilities of the Purchaser

The purchaser is responsible for completion of “Pre-Installation”. This includes the procurement and installation of all required materials and services to get the room ready for installation of the product. This responsibility includes providing:

- A clean and safe work environment for installation of the product (finished floor, ceiling, walls, and proper room lighting).
- A location suitable for the installation of the product. See [Chapter 2 - - Room Requirements](#).
 - Suitable support structures in the floor, walls, or ceiling necessary for the mounting of the product and/or its components.
 - Installation of conduit, ducts and/or raceways necessary to route cables safely. See [Chapter 4 - - System Facility Power & Grounds](#) and [Chapter 5 - - Product Characteristics](#).
 - Electrical power and grounds of specified quality and reliability. See [Chapter 4 - - System Facility Power & Grounds](#).
 - * Electrical power of the required voltage, including an emergency-off safety switch in the room. Power and ground cables to the PDU.
 - * Properly installed and sized junction boxes, including covers and fittings at locations required and called out in architectural drawings.
- A location suitable for operation of the product. See [Chapter 6 - - Room Layout](#).
- Installation of non-electric services.

Section 7.0

What You Will Receive (System Components)

The Definium™ 6000 system may consist of the following main components (See [Figure 1-2](#), [Table 1-1](#), and [Table 1-2](#)):

- Digital Table
- Digital Imaging, JEDI X-ray Control sub-system and Power Unit (1 System Cabinet)
- Overhead Tube Support (OTS)
- Digital Detector Wall Stand with tilting receptor, AEC and removable grid (Standard or Extandard)
- Workstation with Monitor, Keyboard, Mouse, RCIM, and Bar Code Reader (Option)
- Radiographic Stretcher Table (Option)
- Definium Flex DT Table (Option)
- Magma Image Pasting Patient Barrier (Option)
- Detector 1
- Detector 2 (Option)



Figure 1-2 Definium™ 6000 System Component Identification

Item	Component	Model Number
1	Operator Console <ul style="list-style-type: none"> • Magic PC and Mouse • LCD Monitor • RCIM • Keyboard • Bar Code Reader (Option) 	<ul style="list-style-type: none"> • 5117866-27 • 2349792 • 2383880 • 2275756 • 2399877
2	Table	5131070
	Table Top	2382307
3	OTS - Overhead Tube Suspension	5139720
4a	Wall Stand	5136848
4b	Extended Wall Stand	5181666
5	System Cabinet	5128145
5a	JEDI Generator, 50, 65, 80 kW	2374870
6	MX100/09 New Tube Unit	5237529
7	Beam Limiting Device (Collimator)	2266999
8	Radiographic Stretcher Table (Option)	5136793
9	Definium Flex DT Table (Option)	5194670
10	Magma Image Pasting Patient Barrier	5134183-20

Table 1-1 Definium™ 6000 System Component Identification

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Chapter 2 - Room Requirements

Section 1.0 Environmental Requirements

1.1 Relative Humidity and Temperature

Product or Component	RELATIVE HUMIDITY (Non-Condensing)				TEMPERATURE			
	IN-USE		STORAGE		IN-USE		STORAGE	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
Digital Detector	10%	95%	10%	95%	50° F (10° C)	95° F (35° C)	41° F (5° C)	77° F (25° C)
Wall Stand / Extended Wall Stand	10%	80%	5%	95%	50° F (10° C)	104° F (40° C)	-4° F (-20° C)	140° F (60° C)
Table (TBL)	20%	85%	20%	95%	50° F (10° C)	104° F (40° C)	0° F (-18° C)	158° F (70° C)
OTS	20%	85%	20%	95%	50° F (10° C)	104° F (40° C)	0° F (-18° C)	158° F (70° C)
System Cabinet (SKL1)	20%	80%	5%	95%	59° F (15° C)	95° F (35° C)	-40° F (-40° C)	158° F (70° C)
Maxiray 100-09 X-ray Tube (RAD)	-	-	-	-	0	104° F (40° C)	-20° F (-29° C)	104° F (40° C)
Operator Console: PC Tower	8%	85%	8%	90%	40° F (5° C)	95° F (35° C)	-40° F (-40° C)	140° F (60° C)
LCD Monitor	30%	80%	10%	85%	41° F (5° C)	95° F (35° C)	-14° F (-10° C)	140° F (60° C)
Radiographic Stretcher Table (optional)	20%	95%	20%	95%	50° F (10° C)	104° F (40° C)	0° F (-18° C)	158° F (70° C)

Table 2-1 Environmental Requirements (Relative Humidity & Temperature)

Limits for rates of change:

In-Use

< 10 degree C / hour

< 30% / hour

Storage

< 20 degree C / hour

< 30% / hour

Note: STORAGE values only refer to equipment that is still in shipping containers. If the equipment is partially or completely installed, refer to IN-USE values.

1.2 Atmospheric Pressure

Product or Component	ATMOSPHERIC PRESSURE			
	IN-USE		STORAGE	
	MIN.	MAX.	MIN.	MAX.
Digital Detector	70 kPa	102.5 kPa	50 kPa	102.5 kPa
Wall Stand / Extended Wall Stand (WLS)	70 kPa	106 kPa	48 kPa	106 kPa
Table (TBL)	69 kPa	106 kPa	48 kPa	106 kPa
Overhead Tube Suspension (OTS)	70 kPa	106 kPa	48 kPa	106 kPa
System Cabinet (SKL)	70 kPa	101.7 kPa	11.5 kPa	101.7 kPa
Maxiray 100-09 X-ray Tube (RAD)	-	-	-	50.46 kPa
Operator Console:				
PC Tower	71 kPa	101.3 kPa	35 kPa	101.3 kPa
LCD Monitor	58 kPa	101.3 kPa	21 kPa	101.3 kPa
Radiographic Stretcher Table (optional)	69 kPa	106 kPa	48 kPa	106 kPa
Total System Limits	70 kPa	106 kPa	70 kPa	106 kPa

Table 2-2 Environmental Requirements - (Altitude & Atmospheric Pressure)

Limits for rates of change:

<u>In-Use</u>	<u>Storage</u>
< 1.8 hPa / hour	< 76 hPa / hour

Note: STORAGE values only refer to equipment that is still in shipping containers. If the equipment is partially or completely installed, refer to IN-USE values.

1.3 Heat Output

The continuous and peak power consumption of this system is as follows:

- 4.3kW Continuous Power
- 9kW Peak Power (Duration is 22 seconds maximum)

Note: Heat dissipation by X-ray tube not included.

PRODUCT OR COMPONENT	HEAT OUTPUT			
	STANDBY		IN-USE	
Wall Stand / Extended Wall Stand total (detector)	820 BTU/h	0.240 Kilowatt	7170 BTU/h	2.101 Kilowatt
Table total (detector)	1100 BTU/h	0.322 Kilowatt	7450 BTU/h	2.181 Kilowatt
OTS & Collimator	500 BTU/h	0.147 Kilowatt	1500 BTU/h	0.440 Kilowatt
System Cabinet	1110 BTU/h	0.322 Kilowatt	7450 BTU/h	2.181 Kilowatt
Operator Console:				
PC Tower	1207 BTU/h	0.354 Kilowatt	3151 BTU/h	0.923 Kilowatt
LCD Monitor	14 BTU/h	0.004 Kilowatt	390 BTU/h	0.114 Kilowatt

Table 2-3 Heat Outputs by Component

PRODUCT OR COMPONENT	HEAT OUTPUT			
	STANDBY		IN-USE	
Tube	41 BTU/h	0.012 Kilowatt	1325 BTU/h	0.388 Kilowatt
Detector	137 BTU/h	0.04 Kilowatt	256 BTU/h	0.075 Kilowatt
Total System Output	4929 BTU/h	1.443 Kilowatt	28692 BTU/h	8.401 Kilowatt

Table 2-3 Heat Outputs by Component

1.4 Acoustic Output

COMPONENT	SOUND OUTPUT (dBA)	
	IN-USE (measured 1m from any point in system)	STAND-BY (measured 1m from any point in system)
System	<60	< 60

Table 2-4 Definium™ 6000 Acoustic Output

1.5 Light Specification

1.5.1 Room Light Requirements

For the electronic ballast of fluorescent lamp in exam room, the operating frequency should be above 42KHz, For reference:

Priority	Manufacture	Type		Manufactory Product number	Operating frequency	Remarks
1	OSRAM	T5	QTi2X35/49/80	4008321174291	45...70KHZ	Except QTIS e 3x36/220-240CW
		T8	QTIS e series, For example: QTIS e 1x18/220-240	4050300775388		
2	Philips	T5	HF-P III TL5 series: HF-P 149 TL5 HO III HF-P 149 TL5 HO III HF-P 114-35 TL5 HE III HF-P 114-35 TL5 HE III	913713028066 913713028166 913713031066 913713031166	46KH	
		T8	HF-P III TLD series: HF-P118TL-D III HF-P218TL-D III HF-P136TL-D III HF-P236TL-D III HF-P158TL-D III HF-P258TL-D III	913713031266 913713031366 913713031566 913713031666 913713031866 913713031966	45KH	
3	GE	T8	Resi-Proline T8: GE232-120-RES/432-120-RES	97782 97783	Above 42KHz	
			Multi-Volt proline T8 GE-132-MV-N/GE-159-MV-N	30189/95		

Table 2-5

Suggest adding the Anti-IR coating to fluorescent lamp. The anti-IR coating should be able to filter IR signal with 940nm wavelength. Otherwise, it's possible to lead to the IR controller cannot work normally sometimes.

The monitor screen is adjusted for an optimum ambient light level of 50 lux.

1.6 Radiation Protection

Because X-ray equipment produces radiation, special precautions may need to be taken or special site modifications may be required. The General Electric Company does not make recommendations regarding radiation protection. It is the purchasers responsibility to consult a radiation physicist for advice on radiation protection in X-ray rooms.

Section 2.0 Structural Requirements

2.1 Door Size Requirements

Minimum door sizes also apply to hallway and elevator. [See Chapter 5 ?\\$paratext>? on page 59.](#), for additional details.

Door Height: The minimum door height to accommodate the Wall Stand on its dolly is 170 cm when Wall Stand is bended.

Door Width:

- The minimum door width to accommodate the Table is: 917 mm.
- The minimum door width is calculated based on a straight-in approach requiring a 2.5 m (8 ft) wide corridor. Minimum widths will change based on narrower corridors.

2.2 Min Elevator Depth Requirements

The minimum elevator depth to accommodate the Wall Stand on its dolly is 2.4 m when Wall Stand is bended.

2.3 Floor Requirements

The preferred method of installing the wall stand is to use the provided floor anchors.

2.3.1 Floor Requirements when using provided Floor Anchors

CAUTION

Potential for Injury and/or Equipment Damage:

Concrete area for wall stand installation should be 1 m².

Anchors must be a minimum of 150mm from any concrete edge including ducts and cracks. In addition, the general condition of the concrete in the immediate mounting area should be inspected to ensure that anchors will be set in good quality concrete.

The floor bearing the Definium™ 6000 system must be concrete and the thickness to be determined by a Structural Engineer to properly support the equipment loads. The supplied anchors require a minimum embedment of 150 mm into the concrete. If the floor thickness is less than 95

mm, it is recommended that the unit be secured using a through-bolt method with a reinforcement plate on the back side. For additional details, see [Chapter 5, Section 3.1 - Floor / Ceiling Loading and Recommended Mounting Methods](#). The requirement also pertains to both the table and WS.

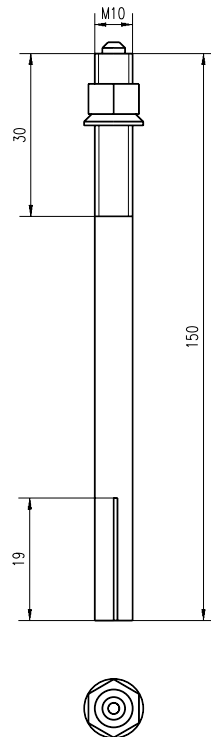


Figure 2-1 Floor Anchor

2.3.2 Pan-Type Floor Construction Requirement

For pan-type floor construction, steel channels must be designed by a local structural engineer to span floor joists. See [Figure 2-2](#).

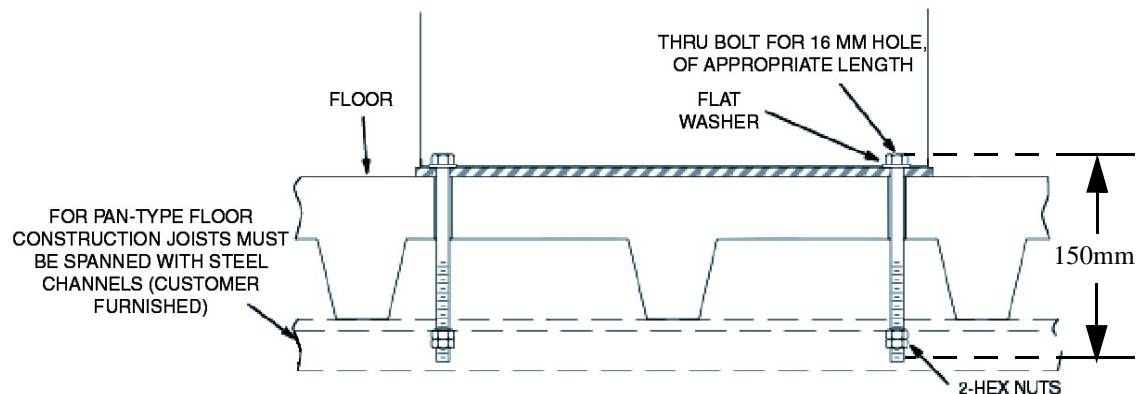


Figure 2-2 Thru-Bolt Floor Mounting (Pan-Type Floor Construction)

2.4 Ceiling Requirements

Description

Complete details of room dimensions must be known when planning an installation. Work with the architect or building engineer and obtain approval from the customer before proceeding with the layout plan.

Methods of support that will permit attachment to structural steel or through bolts in concrete construction should be favored. Do not use anchors in direct tension.

Each rail has mounting holes on 660.4 mm (26 in) centers with the first hole located 55 mm (2 in) from the rail mount end. The last hole is located either 55 mm (2 in) from the other end with a variable space of less than 660 mm (25.98 in) between it and the second last hole. .

Specifications	Minimum Ceiling Height
Standard OTS	2650 mm*
OTS with 190mm extension Kit	2850 mm*
OTS with 287mm extension Kit	2950 mm*

*In the minimum ceiling height circumstance, there are two degradation/risks:

- 1.) Lateral bar(Height 2622mm) maybe conflict with ceiling when WS is in the highest position.
- 2.) SID can't reach 1100mm When Table is in the highest position (830mm).

Table 2-6 Minimum Room Height

⚠ CAUTION

Potential for Injury and/or Equipment Damage:

Rails are mounted on 14 mm bolts. Maximum load per bolt is 159 kg (350 lbs.); however, each mounting bolt must not “pull-out” or otherwise fail under a vertically downward “dead” load of 636 kg (1,400 lbs.).

Referring to the layout drawings, the +/- 3 mm requirement for parallelism of the stationary rail is critical. Therefore, great care must be exercised in locating the mounting points. [Figure 2-3](#) and [Figure 2-4](#) outline requirements that the stationary rail mounting interface must meet. For site planning, please refer to [Figure 5-15](#) to [Figure 5-18](#) in OTS dimensions and layout in details.

Note: For low ceiling height, the stationary rails may be mounted directly to the ceiling slab or to flush-mounted Unistrut or similar structure. For higher rooms in which a false ceiling is to be used, the stationary rails may be attached to rigid vertical members hung from the ceiling slab. A supplementary channel may be secured to the bottom of the vertical members to facilitate provision for mounting holes. A Unistrut system or equivalent is a convenient type of support to employ. Refer to [Figure 2-4](#).

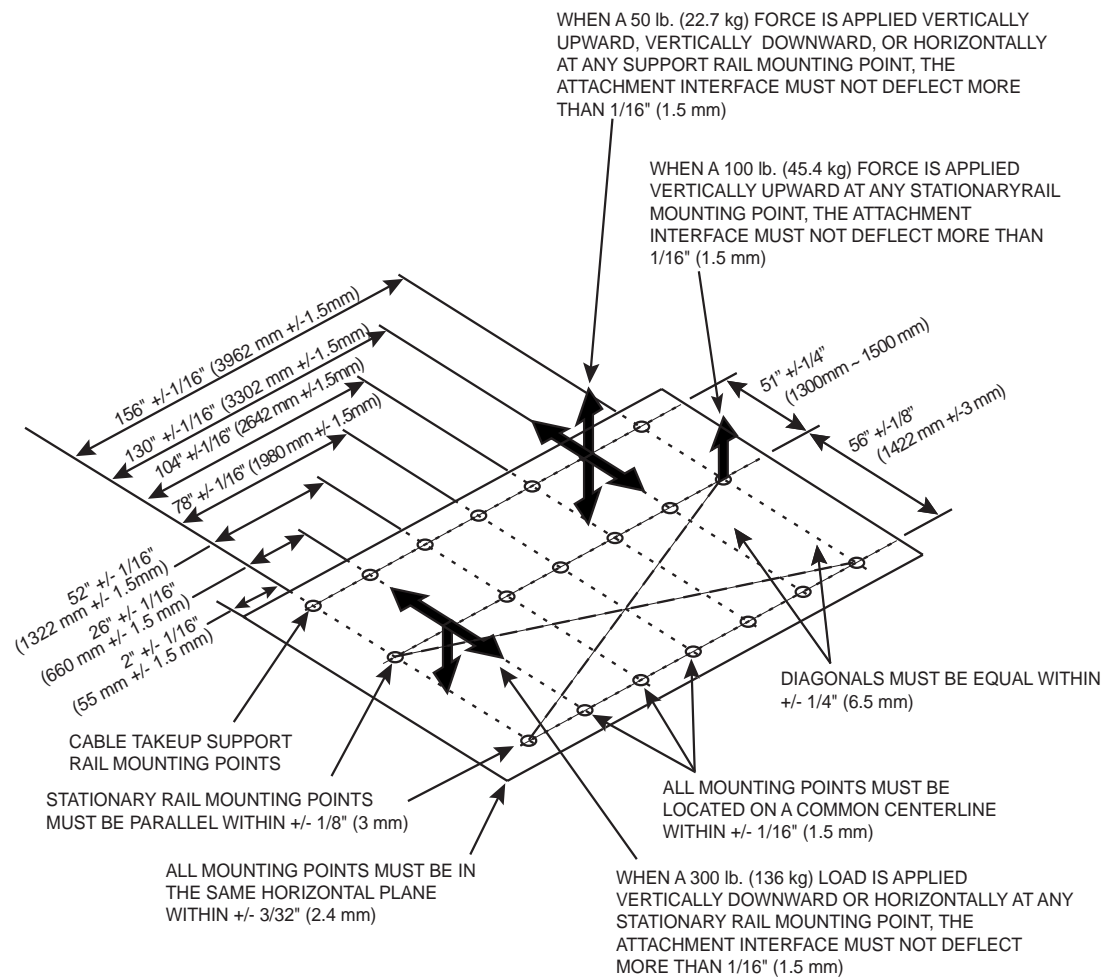


Figure 2-3 Specifications for a Typical 4.1 m (16 foot - 10 inch) Stationary Rail Mounting Interface (Both Rails Ceiling Mounted)

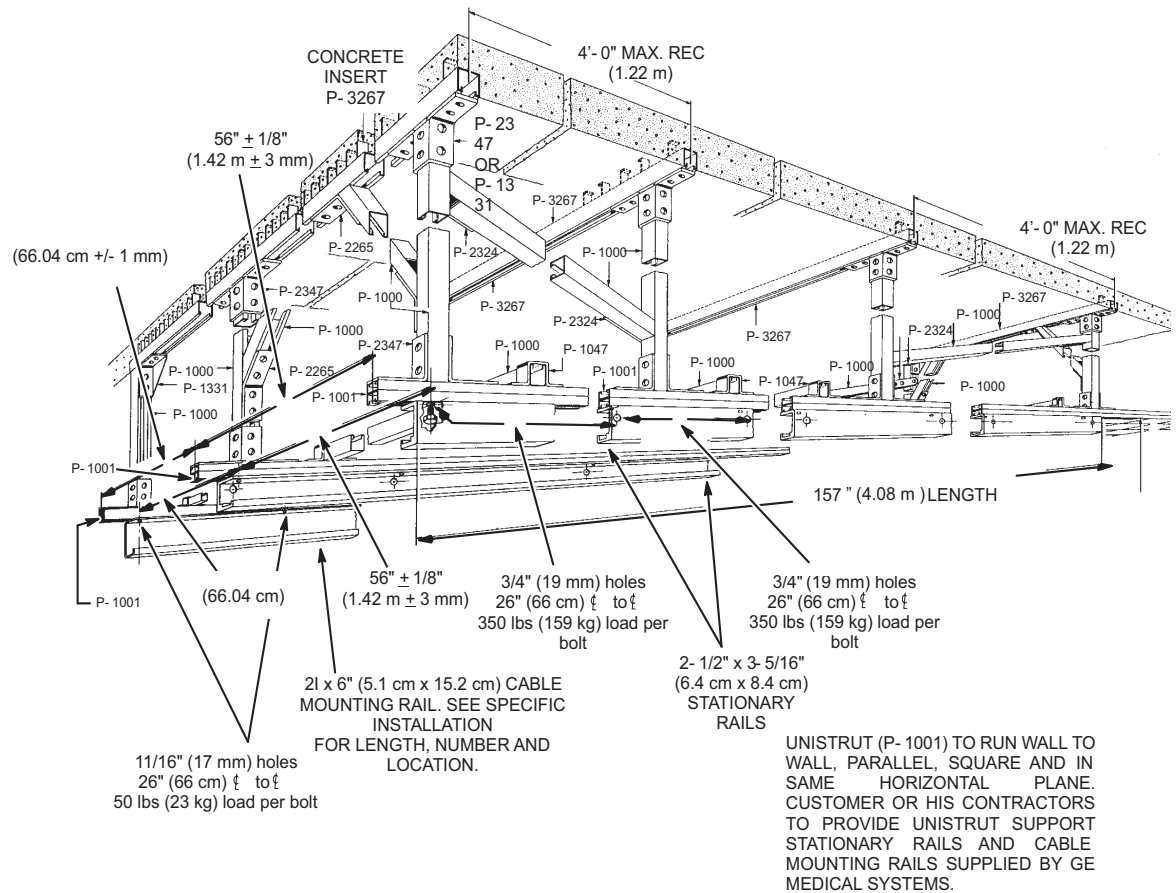


Figure 2-4 Suggested UNISTRUT Structure for OTS Suspension

2.5 Wall Requirements

Provide a wall space to hang the grid holder in the exam room.

2.6 Service Access Requirement

Allow appropriate space for service access of equipment, per country and regional requirements.
For additional details, [See Chapter 6](#)

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Chapter 3 - Planning Electrical Connections

Section 1.0 Routing Cables

1.1 General

High voltage and power cables must be separated from other cables. Use a separate trough in the duct system, or use a separate conduit. Minimize cable length between the line disconnect and the System Cabinet power unit to reduce voltage regulation problems and wiring costs.

For information about the cables supplied with your system, please refer to [Chapter 8 - - System Cable Information](#).

1.2 Conduit

Separate conduits must be used for power and signal wires. These wires must be kept separated from each other.

Using conduit imposes some important considerations when used with this system. Of primary concern, the majority of cables used are pre-terminated. Pre-termination greatly simplifies interconnection but makes cable-pulling difficult because of the added dimensions of the connectors.

Conduit must be large enough to pass the cable and connector through with all other cables already in the conduit. Also, the size of conduit chosen must allow for future growth. There is the possibility of additional cables being added later as the system is developed and options are added.

The use of conduit is recommended for cables running overhead between rooms, especially when a diagonal run provides the shortest cable path.

1.3 Electrical Ducts

It's important that electrical ducts have separate compartments for power and signal wires. These wires must be kept separated from each other for proper system operation.

Electrical ducts have advantages, when used with a single room or two adjacent rooms. Electrical ducts combine cabling in a neat and functional appearance, with accessibility and room for expansion.

1.4 Power Distribution

Definium™ 6000 system power distribution consists of two major components that must either be customer supplied or GE Healthcare supplied. These are:

- Feeder power from Hospital distribution center to the Definium™ 6000 System Cabinet load power unit (SKL).
- Feeder power must be provided via a WYE transformer only with dedicated ground. Neutral is not used.
- Power distribution from the Definium™ 6000 System Cabinet load power unit (SKL) to all the components in the Definium™ 6000 system room.

Usually the feeder power from the Hospital distribution center is customer supplied and the power distribution within the Definium™ 6000 system is supplied by GEHC.

Note:
Additional
Reference
Material Exists

For hospital facility feeder power and ground requirements to the Definium™ 6000 system power unit, refer to: [Chapter 4 - - System Facility Power & Grounds](#).

For Definium™ 6000 system power distribution from the System Cabinet power unit, refer to Definium™ 6000 MIS Map, Direction 5255603-1EN, Definium™ 6000 *System Drawings (Schematics, MIS Map, MIS Charts)*. This information is also present in this manual; see [Chapter 8 - - System Cable Information](#).

Section 2.0 Hospital Network

2.1 Broadband Network Connection

Definium™ 6000 systems are equipped with Broadband fast Ethernet hardware for Service diagnostics. Definium™ 6000 systems equipped with Digital Imaging are capable of placing electronic images on the Hospital image Ethernet Network. It is the purchasers responsibility to provide the Ethernet connection (rated at 100Mb/sec transfer rate for optimal performance) within 0.91 meters of the Operator Console.

The network connection is made at the Operator Console.

- 100BaseT network connection is preferred
- 10BaseT network connection is acceptable

Note: If using GE PACS LITE BOX software, the GE PACS LITE BOX software revision must be 6.1d02 or greater. Older versions will not work with the Definium™ 6000 system.

For DICOM information, refer to: 5135613-100, Definium™ 6000 *Acquisition Workstation Conformance Statement* for DICOM V3.0.

Note:

- 1.) Connection of the product to a network that includes other equipment could result in previously unidentified risks to patients, operators or third parties;
- 2.) The responsible organization should identify, analyze, evaluate and control these risks;
- 3.) Subsequent changes to the network could introduce new risk and require additional analysis; and
 - Changes to the network include:
 - Changes in network configuration;
 - Connection of additional items to the network;
 - Disconnecting items from the network;
 - Update of equipment connected to the network;
 - Upgrade of equipment connected to the network.

Note: The means required to present the images for diagnostic purpose shall comply with the requirements of DICOM standards.

2.2 Remote Services Broadband Pre-Installation Requirements for Europe

- To enable an easier installation and to benefit from remote support (service and engineering teams), equipments should be Insite connected at installation.
- Thus the connectivity solution to implement should be decided during pre installation and all related data should be available before installation starts.
- For all installations make sure that you have at least one RJ45 dedicated to connect the new equipment on the LAN. In case of Broadband, this connection will also be used for the remote service of the equipment.
- GEHC offers a wide range of connectivity solutions: From full GE package (GE supplies Router and customer buys the line) to customized solutions (GE adapts to customer infrastructure).
- Network devices (like CISCO Routers for instance) can be shipped with the equipment only if the Sales Representative has added the connectivity item in the order.
- For complete descriptions of these connectivity solutions, please refer to the Broadband Solutions catalogue available through your local GEHC sales and service representative.
- Connectivity Process and pre-installations checklists are available in the Broadband Connectivity PIM available through your local GEHC sales and service representative.
- For each solution selected by the customer the pre-installation checklist must be fulfilled by site IT manager in order to get connectivity information (site IT manager contacts, IP address...) available at installation.

Section 3.0 Master Interconnect System (MIS)

System interconnect cables are described in MIS (Master Interconnect System) documents shipped with the system. These documents specify all interconnections between components within the system and its options.

Note:
Additional
Reference
Material Exists

For specific Definium™ 6000 system interconnect maps and connection details, please refer to the following Service Manual: Direction 5255603-1EN, Definium™ 6000 *System Drawings* (*Schematics, MIS Map, MIS Charts*). This information is also present in this manual; see [Chapter 8](#) - - [System Cable Information](#).

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Chapter 4 - System Facility Power & Grounds

Section 1.0 Introduction

The purpose of this chapter is to ensure that the product is properly powered and grounded, thus ensuring the proper operation of the product installed. The information in this chapter should be adhered to, unless there are written deviations approved by GE Healthcare.

This chapter gives the sizes and procedures on how to power and ground your system. If these power and grounding instructions are not adhered to, proper operation cannot be guaranteed. Any cost associated and found to be a result of non-conformity, as stated in this chapter, may result in additional cost charged back to the institution and/or their contractor.

NOTICE

All Definium™ 6000 system and sub-system power connections shall be made ONLY to power outlets that are connected to the Definium 6000 system.

All Definium™ 6000 system component power connections must be made in accordance with the Definium™ 6000 MIS Map, Direction 5255603-1EN, *Definium™ 6000 System Drawings* (Schematics, MIS Map, MIS Charts). This information is also present in this manual; see [Chapter 8 - - System Cable Information](#).

1.1 Power Quality

The electrical power, from its origination to the system, must adhere to the wire size and transformer sizes as prescribed in the installation drawings. The feeder voltage-drops, as well as the supplying power, must be within the given parameters. Sizing for feeder is usually calculated for a maximum of 2% voltage drop at the minimum voltage range. The actual feeder sizing may vary from the installation drawing for a facilities voltage.

Calculate feeder losses before you begin. Total feeder losses must be calculated to ensure that the losses are less than those specified in the installation drawings. Calculating the recommended minimum transformer sizing for feeding a system ensures the transformer losses are less than half of the maximum regulation for the system.

Regulation is the calculated voltage losses for the entire power distribution system (No-Load Voltage minus Full-Load Voltage) divided by the no-load voltage minus the system losses (Full-Load Voltage):

$$\text{Regulation} = \frac{\text{NoLoadVoltage} - \text{FullLoadVoltage}}{\text{FullLoadVoltage}} \times 100$$

In the X-ray room, there must be a lockable facility power disconnect. It must be installed electrically before the equipment, for the purpose of locking out the power. This must be done before service to the high voltage system is performed.

1.2 Electrical Requirements

NOTICE

In China, all cables used to provide system power and ground must be CCC certified.

All system components obtain their power from the Power Distribution Unit (PDU) in the System Cabinet. **Providing power and ground wires to the PDU are the responsibility of the customer.** As an aid, wire sizes for various lengths of the power supply cable are shown in the following tables.

Note: The length of stripped wires should be longer than 25 mm, and tinned.

⚠ WARNING

PE CABLES SHALL HAVE THE DIAMETER NOT LESS THAN THE POWER SUPPLY CONDUCTOR, AND SHALL HAVE AN IMPEDENCE NOT MORE THAN 0.1 OHMS.

⚠ CAUTION

In Japan, JIS Z4701 requires that the earthing terminal of the installation shall be securely connected with the wire earthed by class 3 earthing work (special class 3 earthing work for 400V system) determined in the ministerial order of MITI number 61. And if the protective earthing wire of each equipment is connected directly with the protective earthing terminal of the installation, a potential equalization busbar which has adequate length, enough mechanical strength, a negligible electric resistance as compared with electric resistance of earthing facilities, and proper size shall be provided.

At installation of X-ray equipment, this potential equalization busbar shall be so arranged that earthing terminals of every associated equipment can be connected with this busbar.

1.2.1 System Electrical Requirements

Note: The main circuit breaker supplied by the customer must be sized in accordance to local regulations.
Shunt trip circuit breaker required.

AWG NO	Diam. mm.	Area mm ²		AWG NO	Diam. mm.	Area mm ²
1	7,350	42,400		16	1,290	1,3100
2	6,540	33,600		17	1,150	1,0400
3	5,190	21,200		18	1,024	0,8230
4	5,190	21,200		19	0,912	0,6530
5	4,620	16,800		20	0,812	0,5190
6	4,110	13,300		21	0,723	0,4120
7	3,670	10,600		22	0,644	0,3250
8	3,260	8,350		23	0,573	0,2590
9	2,910	6,620		24	0,511	0,2050
10	2,590	5,270		25	0,455	0,1630
11	2,300	4,150		26	0,405	0,1280
12	2,050	3,310		27	0,361	0,1020
13	1,830	2,630		28	0,321	0,0804
14	1,630	2,080		29	0,286	0,0646
15	1,450	1,650		30	0,255	0,0503

Table 4-1 Conversion Table - American Wire Gauge - mm. - mm²

1.2.1.1 System Power Specifications

Input Voltage	380/400/415/440/460/480 VAC Wye 3-Phase and ground without neutral
Daily Voltage variations	+/- 10% (VAC) In this range, the generator will operate without any de-rating in accuracy.
Nominal line frequency (Hz)	50 Hz / 60 Hz
Daily frequency variation (Hz)	+/- 3 Hz

Table 4-2 System Power Specifications

Line Impedance	<p>The apparent line impedance guaranteed by the customer should be equal or less than the values indicated below, according to the voltage value and the commercial power of the system.</p> <p>Voltage range (V) Line Impedance (ohms)</p> <table><tr><th><u>3 phase</u></th><th><u>65KW</u></th><th><u>80KW</u></th></tr><tr><td>380</td><td>0.118</td><td>0.096</td></tr><tr><td>400</td><td>0.131</td><td>0.100</td></tr><tr><td>415</td><td>0.138</td><td>0.113</td></tr><tr><td>440</td><td>0.154</td><td>0.125</td></tr><tr><td>480</td><td>0.185</td><td>0.150</td></tr></table> <p>Note: 400-480 VAC impedance values are based on IEC 601-2-7 standard. Values are interpolated from values in standard.</p>			<u>3 phase</u>	<u>65KW</u>	<u>80KW</u>	380	0.118	0.096	400	0.131	0.100	415	0.138	0.113	440	0.154	0.125	480	0.185	0.150
<u>3 phase</u>	<u>65KW</u>	<u>80KW</u>																			
380	0.118	0.096																			
400	0.131	0.100																			
415	0.138	0.113																			
440	0.154	0.125																			
480	0.185	0.150																			
Inrush current	1000 Amps																				
Ground wire	Same as power cable																				

Table 4-2 System Power Specifications

1.2.1.2 65kW System Wire Sizes & kVA Load Characteristics

- Calculations based upon nominal voltage, wire size in mm².
- Recommended feeder sizes from distribution transformer to the power cabinet.
- Neutral must be terminated inside the main disconnect panel and not at any GE cabinet.
- The grounding conductor will be of same size as the feeder wires with a 1/0 minimum. This ground will run from equipment back to the facility power source / main grounding point and always travel in the same conduit with the feeders and neutral.

* minimum wire size for circuit breaker, based on recommended overcurrent protection.

WIRE RUN LENGTH	INPUT VOLTAGE (VAC)					
	342-418 380	360-440 400	373-456 420	396-484 440	414-506 460	432-528 480
15m (50 ft.)	* 4 (1/0)	* 4 (1/0)	* 4 (1/0)	* 4 (1/0)	* 4 (1/0)	* 4 (1/0)
30m (100 ft.)	3 (1/0)	* 4 (1/0)	* 4 (1/0)	* 4 (1/0)	* 4 (1/0)	* 4 (1/0)
46m (150 ft.)	2 (1/0)	2 (1/0)	2 (1/0)	3 (1/0)	3 (1/0)	4 (1/0)
61m (200 ft.)	1/0 (1/0)	1 (1/0)	1 (1/0)	2 (1/0)	2 (1/0)	2 (1/0)
77m (250 ft.)	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)
92m (300 ft.)	3/0 (3/0)	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)
107m (350 ft.)	4/0 (4/0)	3/0 (3/0)	3/0 (3/0)	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)
122m (400 ft.)	250M (250M)	4/0 (4/0)	4/0 (4/0)	3/0 (3/0)	3/0 (3/0)	2/0 (2/0)
138m (450 ft.)	300M (300M)	250M (250M)	4/0 (4/0)	4/0 (4/0)	3/0 (3/0)	3/0 (3/0)

Table 4-3 3-Phase 65 kW System - Minimum Wire Size

Item	Specification					
Phase	Three Phase					
Nominal line voltage (VAC)	380	400	420	440	460	480
Voltage range (VAC)	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%
Momentary line current (Amps)	147	140	133	127	122	117
Continuous line current (Amps)	7	6.7	6.2	6	5.7	5.5
Power demand (kVA)	97	97	97	97	97	97
Line frequency (Hz)	47/53 Hz and 57/63 Hz					

Table 4-4 JEDI Generator 3-Phase 65 kW - kVA Load Characteristics

1.2.1.3 80kW System Wire Sizes & kVA Load Characteristics

- Calculations based upon nominal voltage, wire size in mm².
- Recommended feeder sizes from distribution transformer to the power cabinet.
- Neutral must be terminated inside the main disconnect panel and not at any GE cabinet.
- The grounding conductor will be of same size as the feeder wires with a 21,200 mm² minimum. This ground will run from equipment back to the facility power source / main grounding point and always travel in the same conduit with the feeders and neutral.
- * minimum wire size for circuit breaker, based on recommended overcurrent protection.

WIRE RUN LENGTH	INPUT VOLTAGE (VAC)					
	342-418 380	360-440 400	373-456 420	396-484 440	414-506 460	432-528 480
15m (50 ft.)	* 2 (1/0)	* 2 (1/0)	* 2 (1/0)	* 2 (1/0)	* 2 (1/0)	* 2 (1/0)
30m (100 ft.)	* 2 (1/0)	* 2 (1/0)	* 2 (1/0)	* 2 (1/0)	* 2 (1/0)	* 2 (1/0)
46m (150 ft.)	1/0 (1/0)	1 (1/0)	1 (1/0)	* 2 (1/0)	* 2 (1/0)	* 2 (1/0)
61m (200 ft.)	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)
77m (250 ft.)	3/0 (3/0)	3/0 (3/0)	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)	1/0 (1/0)
92m (300 ft.)	4/0 (4/0)	4/0 (4/0)	3/0 (3/0)	3/0 (3/0)	2/0 (2/0)	2/0 (2/0)
107m (350 ft.)	300M (300M)	250M (250M)	4/0 (4/0)	4/0 (4/0)	3/0 (3/0)	3/0 (3/0)
122m (400 ft.)	350M (350M)	300M (300M)	250M (250M)	4/0 (4/0)	4/0 (4/0)	3/0 (3/0)
138m (450 ft.)	400M (400M)	350M (350M)	300M (300M)	250M (250M)	250M (250M)	4/0 (4/0)

Table 4-5 3-Phase 80 kW System - Minimum Wire Size

Item	Specification					
Phase	Three Phase					
Nominal line voltage (VAC)	380	400	420	440	460	480
Voltage range (VAC)	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%
Momentary line current (Amps)	190	180	170	163	156	150
Continuous line current (Amps)	7	6.7	6.2	6	5.7	5.5
Power demand (kVA)	125	125	125	125	125	125
Line frequency (Hz)	47/53 Hz and 57/63 Hz					

Table 4-6 JEDI Generator 3-Phase 80 kW - kVA Load Characteristics

1.2.2 Recommended Wall “Circuit-Breaker” Ratings

Power / Voltage	65 kW	80 kW
380 V	74 A / 600 V	95 A / 600 V
400 V	70 A / 600 V	90 A / 600 V
415 V	67 A / 600 V	85 A / 600 V
440 V	64 A / 600 V	82 A / 600 V
460 V	61 A / 600 V	78 A / 600 V
480 V	59 A / 600 V	75 A / 600 V

Table 4-7 Wall Breaker Parameter (Theoretical Current Values)

1.2.3 Wiring Electrical Power and Disconnects

This section provides additional data regarding power circuits the customer must provide, and internal electrical circuits necessary to supply the correct power to the Definium™ 6000 system. [Figure 4-1](#) shows the room power supply installed.

1.2.3.1 Room Power Supply

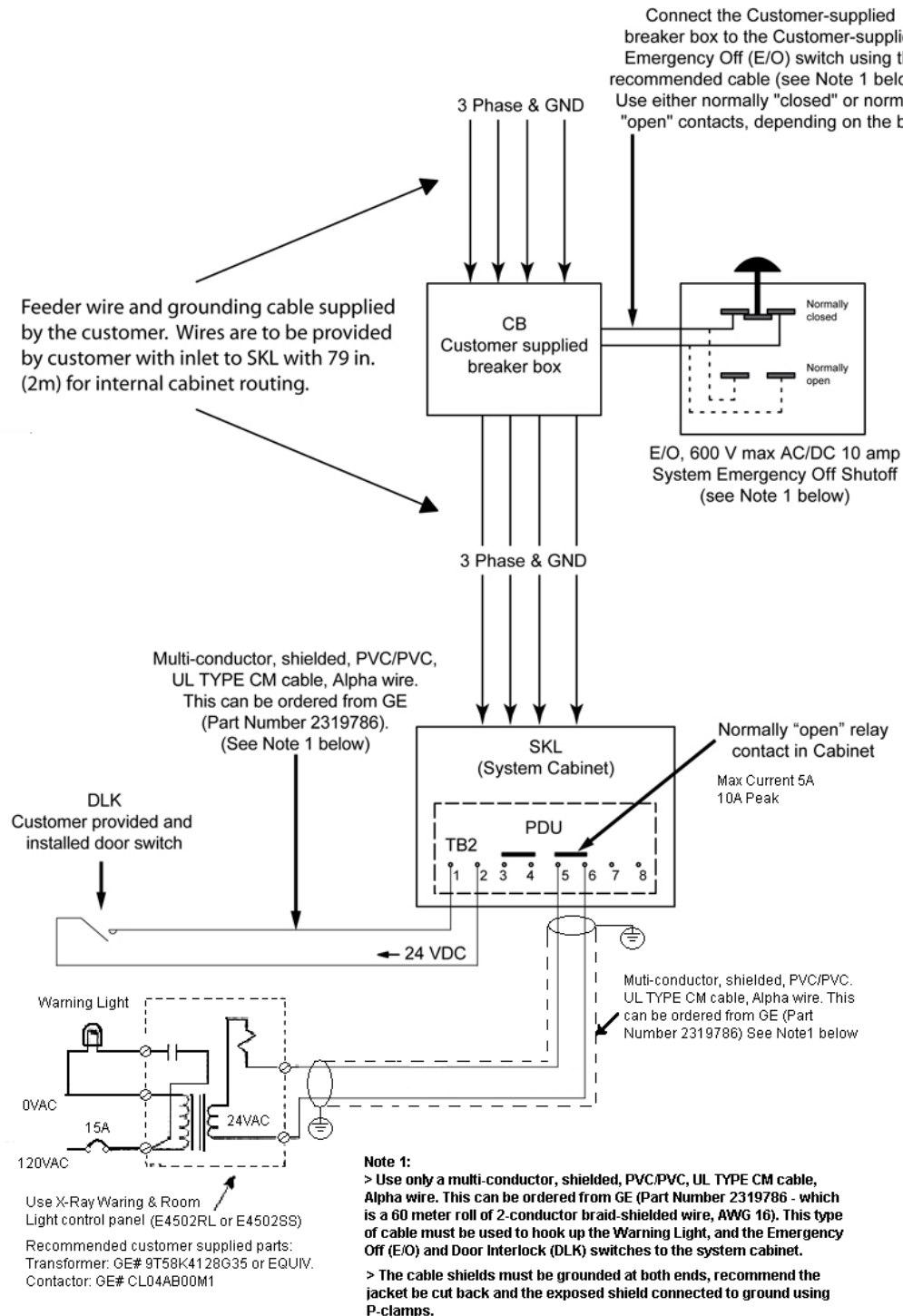


Figure 4-1 Room Power Supply (see [Table 4-8](#) for Legend)

United States Key	Description
1	Feeder wire and grounding cable supplied by the customer. Wires are to be provided by customer with inlet to SKL with 2 meters for internal cabinet routing).
E/O (see note below)	Emergency Off button located near room access door, 1.5 meters above floor. Wires to connect to cabinet supplied by GE and found in Catalog item A8091JHCQA10210637.
XRL	Yellow X-ray emission indicator lamp above the room access door. 220 V in Europe/120 V in USA with 25 W max. bulb (per local regulations). Wires and light fixtures supplied by customer.
DLK (see note below)	Open-door detector (per local regulations). SKL provides 24 VDC.
CB	Circuit breaker with remote trip (shunt) capabilities supplied by customer.

Note: Use only a multi conductor, shielded, PVC/PVC, UL TYPE CM cable. Alpha Wire. CQA10210637. This wire is found in GE Catalog Item A8091JH as a “bulk” roll of wire (60 Meters). Material consists of two 1,3100 mm² (19/0.0117 strand) conductors. Shields must be grounded at both ends.

Table 4-8 Legend for Figure 4-1

1.2.3.2 Multiple Emergency “OFF” Switches

Figure 4-2 shows how multiple emergency “OFF” switches could be wired.

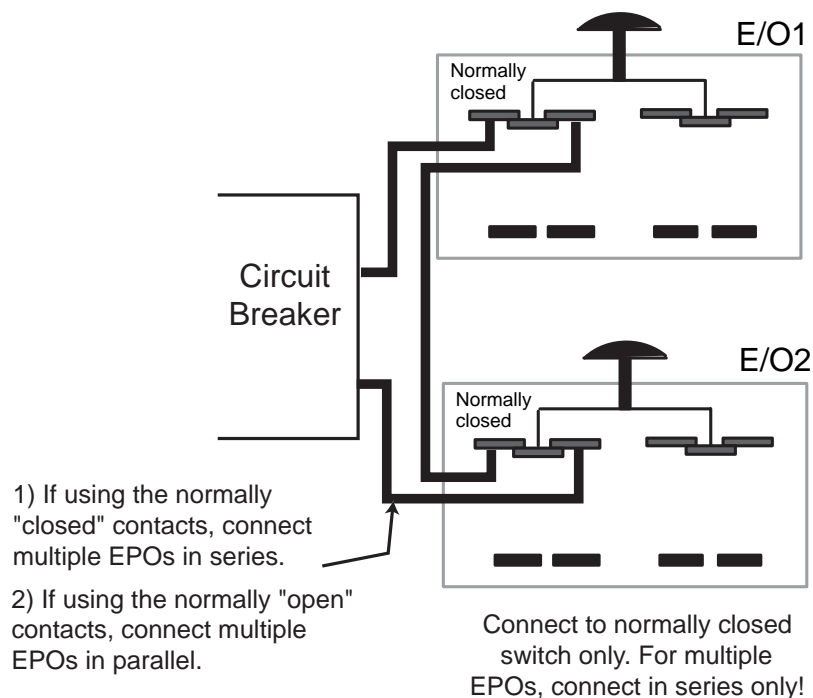


Figure 4-2 Wiring Multiple “Emergency OFF” (E/O) Switches

1.2.3.3 Customer-supplied Electrical Outlet

Customer must provide an electrical outlet of appropriate voltage rating within 0.91 meters of the System Cabinet.

Section 2.0 Electrical Grounds

2.1 System and Facility Grounds

The ground for this system must originate at the system's power source and be continuous (i.e., transformer or first access point of power into a facility, and be continuous to the system power disconnect in the room). Ground connection at the power source must be at the grounding point of the "Neutral/Ground" if a "Wye" transformer is used, or typical grounding points of a separately derived system. In the case of an external facility, it must be bonded to the facility ground point at the electrical service entrance.

The "system" ground can be spliced using "High Compression Fittings" but must be properly terminated at each distribution panel it passes through. When it is terminated, it must be connected into an approved grounding block. Incoming and outgoing grounds must terminate at this same grounding block. Grounds must only be terminated to approved grounding blocks. Grounds must never connect directly to the panels, frames or other materials in a cabinet or distribution panel (refer to [Figure 4-3](#)).

2.2 Recommended Ground Wire Sizes

The ground wire must be copper and never smaller than 21,200 mm².

The ground wire impedance from the system disconnect (including the ground rod) measured to earth, must not exceed 2 ohms (as measured by one of the applicable techniques described in Section 4 of ANSI/IEEE Standard 142 - 1982). Refer to [Figure 4-4](#) and [Figure 4-5](#) for typical equipment and methods to measure the different portions of the 2 ohm impedance.

Note:
Additional
Reference
Material Exists

For general system grounding requirements and information on establishing an equi-potential grounding system, refer to:

- Direction 46-014505, *Electrical Safety - Equipment Grounding*
- Direction 46-014546, *Electrical Safety - Leakage Currents*

For specific system grounding requirements and information on establishing an equi-potential grounding system, refer to: [Chapter 4 - - System Facility Power & Grounds](#). For specific Definium™ 6000 system grounding maps and connection details, refer to Direction 5255603-1EN, *Definium™ 6000 System Drawings (Schematics, MIS Map, MIS Charts)*. This information is also present in this manual; see [Chapter 8 - - System Cable Information](#).

2.3 Final Checks, Before System Installation Can Begin

The customer must provide GE Healthcare or its representative (installation specialist) evidence that grounds and electrical power meet GE Healthcare' specifications.

Prior to product installation, a local service or installation specialist, to be determined by GEHC, will do a physical walk through of the exam suite to ensure the following:

- 1.) Ground wires are of the same size as the power feeder or 21,200 mm², whichever is larger.
- 2.) Grounds at junction points are connected properly and securely to an approved ground bus.
- 3.) Grounds within an enclosure are tied together by copper wire or to an appropriate buss bar (i.e., separate buss bars within an enclosure must be tied together with copper wire of appropriate size).
- 4.) Grounds originate at the power source (i.e., transformer or entrance panel into facility).
- 5.) Ground wires measure less than 2 ohms to earth.

You may use the following form to record the results of that inspection.

GROUND IMPEDANCE MEASURED TO BE _____ OHMS

Inspector's Name and Date: _____

Customer's Name and Date: _____

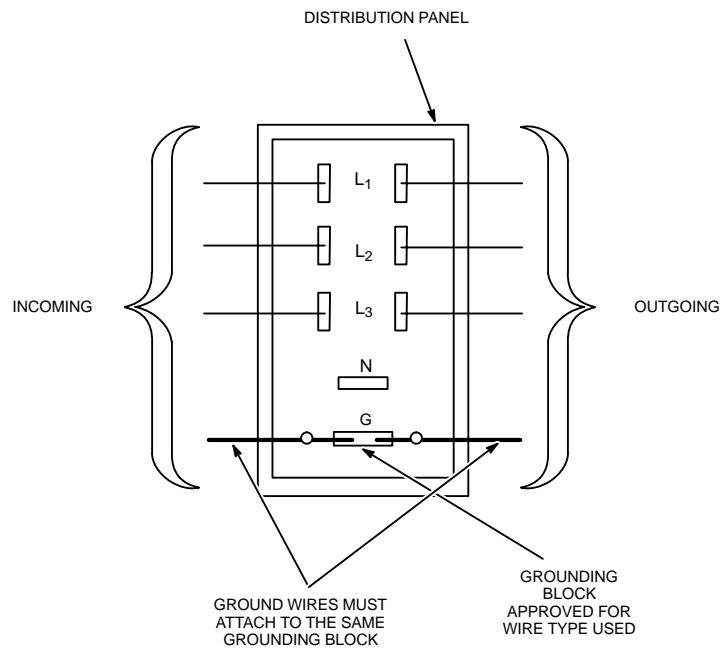


Figure 4-3 Ground Connection at Distribution Panel

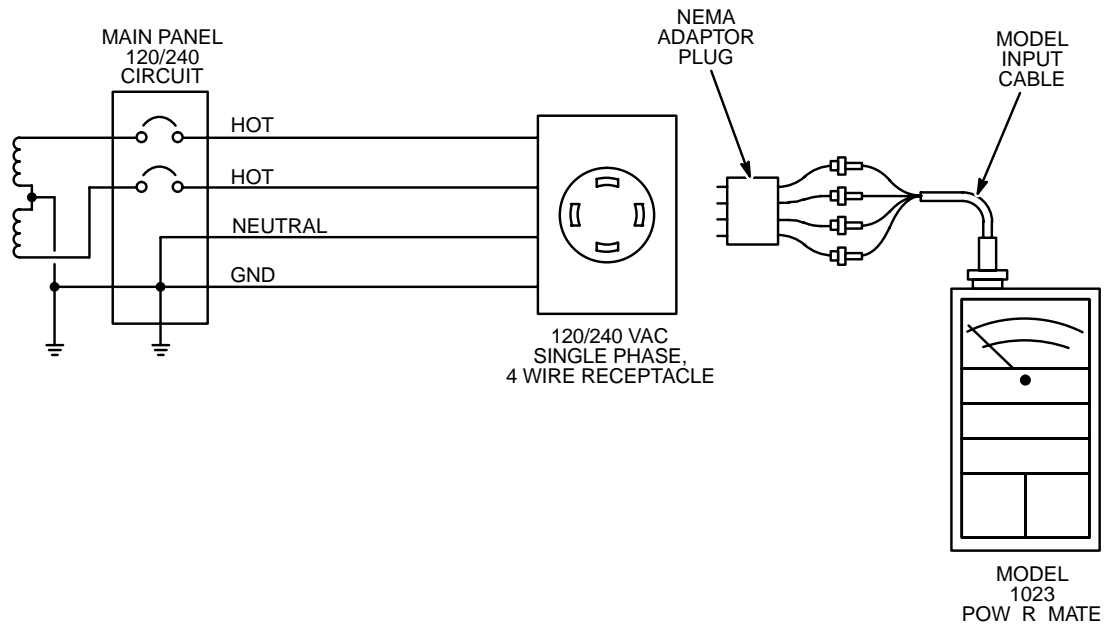


Figure 4-4 Wire Impedance Test

Note: To ensure proper measurement of the ground rod, the grounding conductor from a facility must be removed. Since this wire may be carrying amounts of current, this procedure should only be performed by a qualified person.

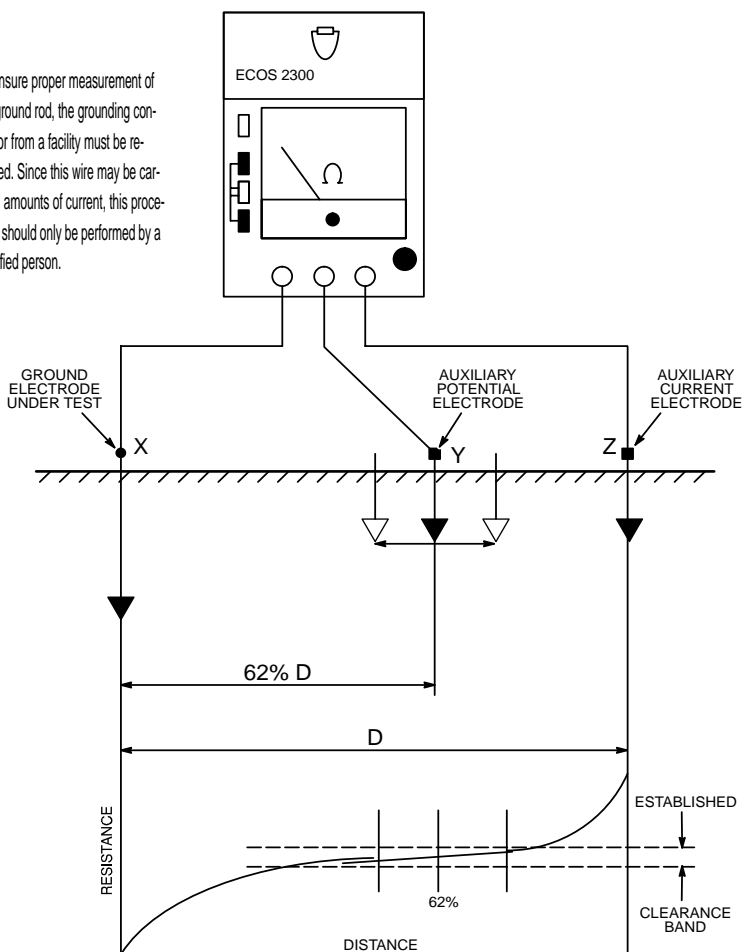


Figure 4-5 Ground Rod Impedance Test

Chapter 5 - Product Characteristics

Section 1.0 Overview

Refer to this section for dimensional drawings for the components of the Definium™ 6000 system. These components include:

- Operator Console - [Figure 5-4](#) through [Figure 5-6](#).
- Digital Table (TBL) - [Figure 5-7](#) through [Figure 5-8](#).
- Radiographic Stretcher Table (option) - [Figure 5-9](#).
- System Cabinet (SKL) - [Figure 5-10](#) through [Figure 5-13](#).
- Grid Holder - [Figure 5-14](#).
- Overhead Tube Suspension (OTS) - [Figure 5-15](#) through [Figure 5-24](#).
- Wall Stand (WS) - [Figure 5-25](#) through [Figure 5-27](#).

Note: Drawings are not to scale. Dimensions are called out on each drawing.

Section 2.0

System Components Dimensions and Weights

2.1 Dimensions

PRODUCT OR COMPONENT	DIMENSIONS			References
	Width	Depth	Height	
Operator Console:				
PC	210 mm	525 mm	455 mm	See Figure 5-4 through Figure 5-6
LCD Monitor	387 mm	180 mm	504 mm	
RCIM	451 mm	135 mm	70 mm	
Digital Table Assembly	2295 mm	938 mm	520-820 mm	See Figure 5-7 through Figure 5-8
Radiographic Stretcher Table (Option)	2188 mm	917 mm	750 +/- 2 mm	See Figure 5-9
Stationary Rail (4 m) each	4074 mm	62.5 mm	84.3 mm	See Figure 5-15 through Figure 5-21
2 Meter Bridge	2200 mm	810 mm	178.6 mm	See Figure 5-15 , Figure 5-17 through Figure 5-19 , Figure 5-21
3 Meter Bridge	3200 mm	810 mm	178.6 mm	
Short OTS Extension (Option)	88 mm	88 mm	190 mm	See Figure 5-22 through Figure 5-23
Long OTS Extension (Option)	88 mm	88 mm	287 mm	See Figure 5-22 , Figure 5-24
Overhead Tube Support Includes: carriage, collimator, tube, and UIF	607 mm	1016 mm	889 mm	See Figure 5-15 through Figure 5-21
System Cabinet	907 mm	719 mm	1296 mm	See Figure 5-10 , Figure 5-13
Grid Holder (Option)	544 mm	237 mm	599 mm	See Figure 5-14
Wall Stand	630 mm	900 mm	2310 mm	See Figure 5-25 through Figure 5-27
Extended Wall Stand	630 mm	1240 mm	2310 mm	

*Showing: Mounting Holes, Cable Entrance, Air Vents, Service Access, Center of Gravity

Table 5-1 Product Physical Characteristics (Width / Depth / Height)

2.2 Dimensioned Figures and Drawings

2.2.1 Wall Box

Note: The use of a wall box is required with this system. Wall box is used to interface the cables in exam room and patient room. The cables used with this system are terminated with connectors that can only be used with this specific wall box.

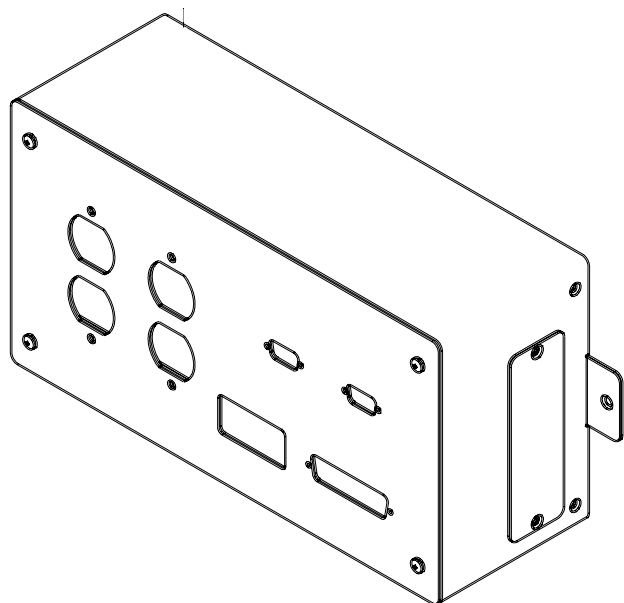


Figure 5-1 Wall Box Dimensions

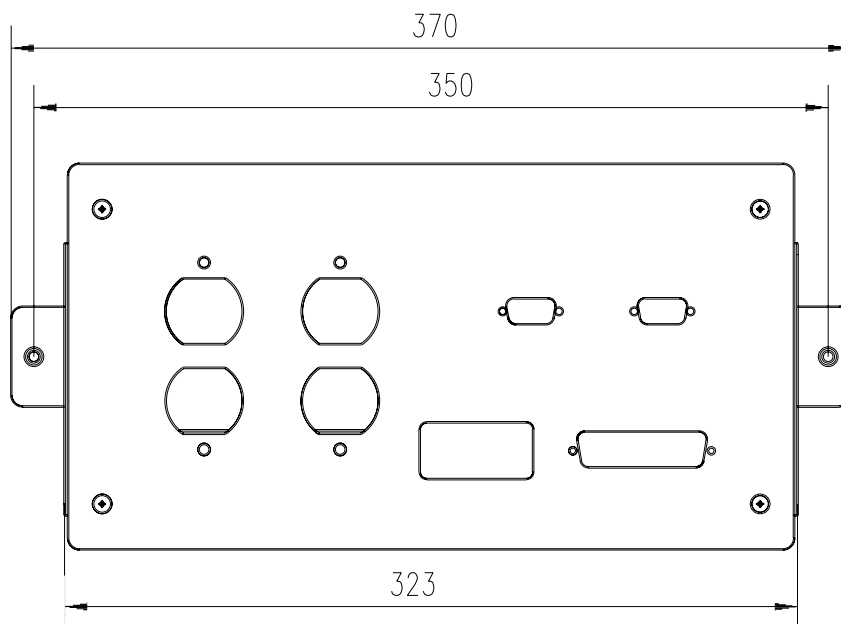


Figure 5-2 Wall Box Front View

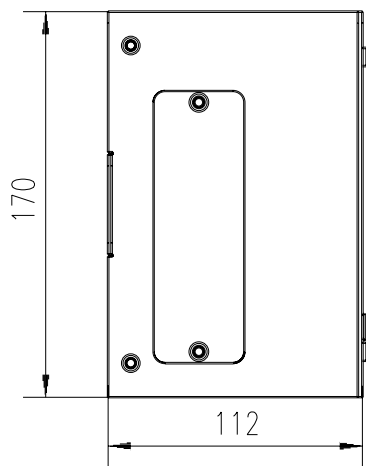


Figure 5-3 Wall Box Side View

2.2.2 Operator Console



Figure 5-4 Operator Console - Keyboard / Mouse / RCIM / Exposure Handswitch



Figure 5-5 Operator Console - Monitor



Figure 5-6 Operator Console - Computer

2.2.3 Table

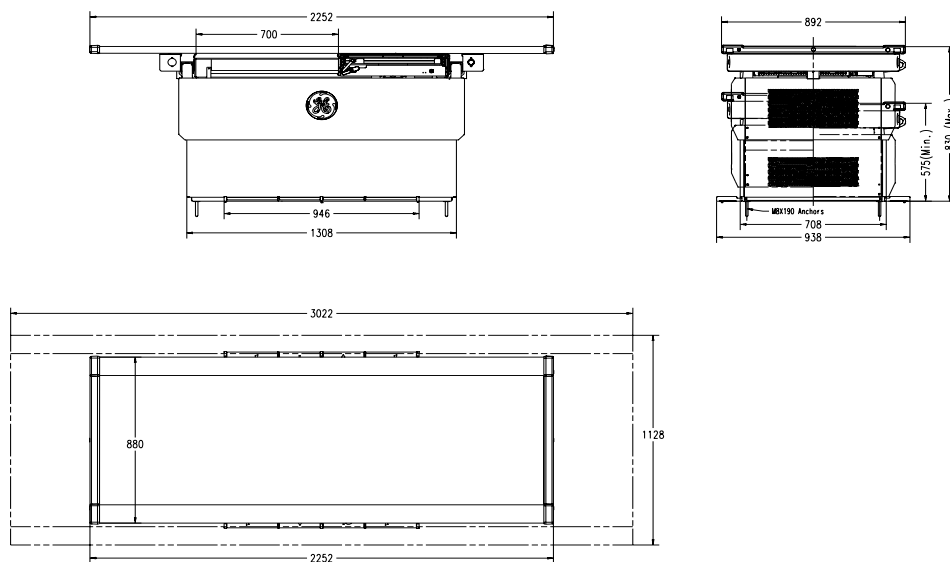


Figure 5-7 Definium™ 6000 Table Views

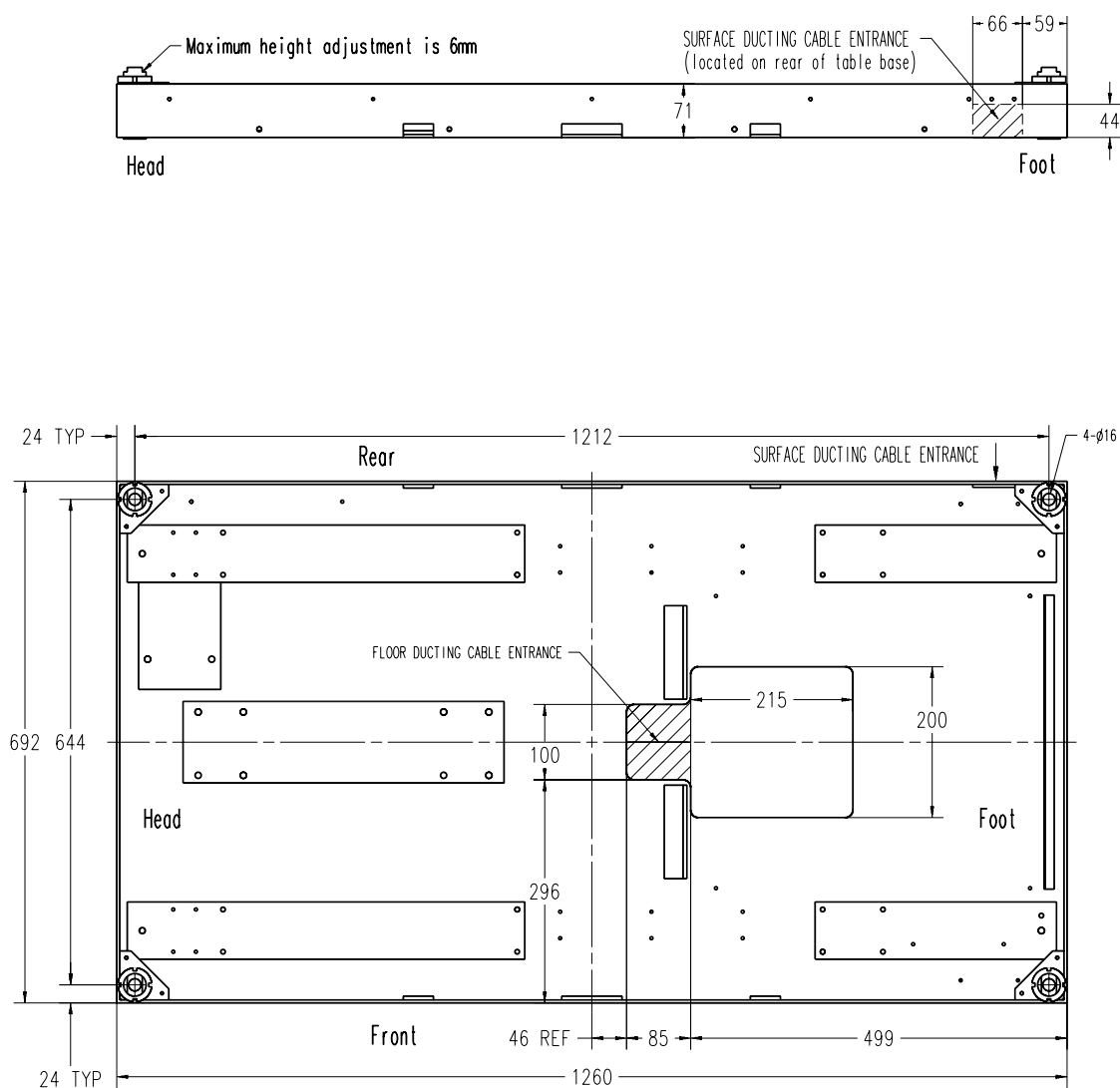


Figure 5-8 Definium™ 6000 Table Bottom Plate

2.2.4 Radiographic Stretcher Table (Option)

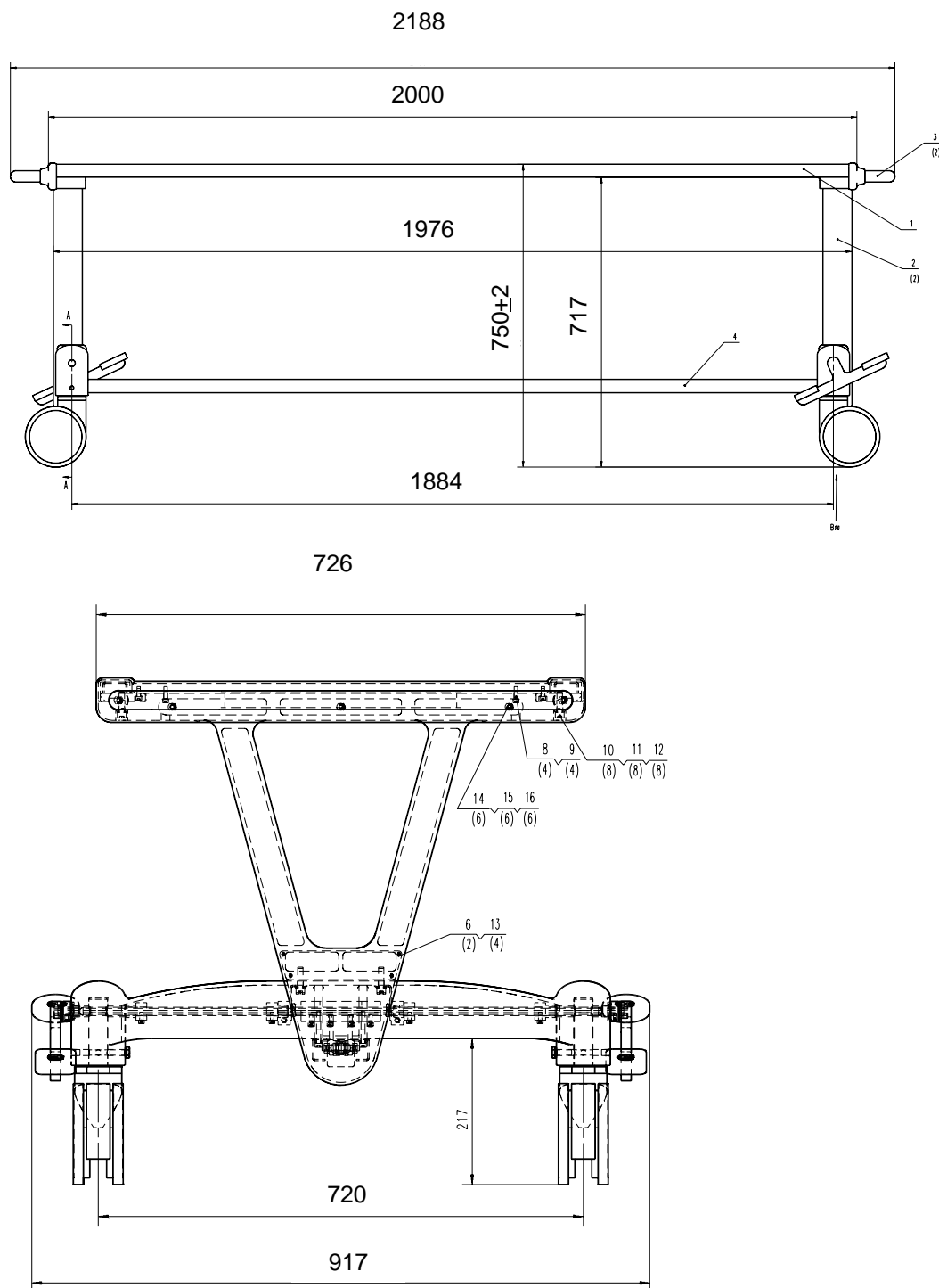


Figure 5-9 Definium™ 6000 Radiographic Stretcher Table Views

2.2.5 System Cabinet

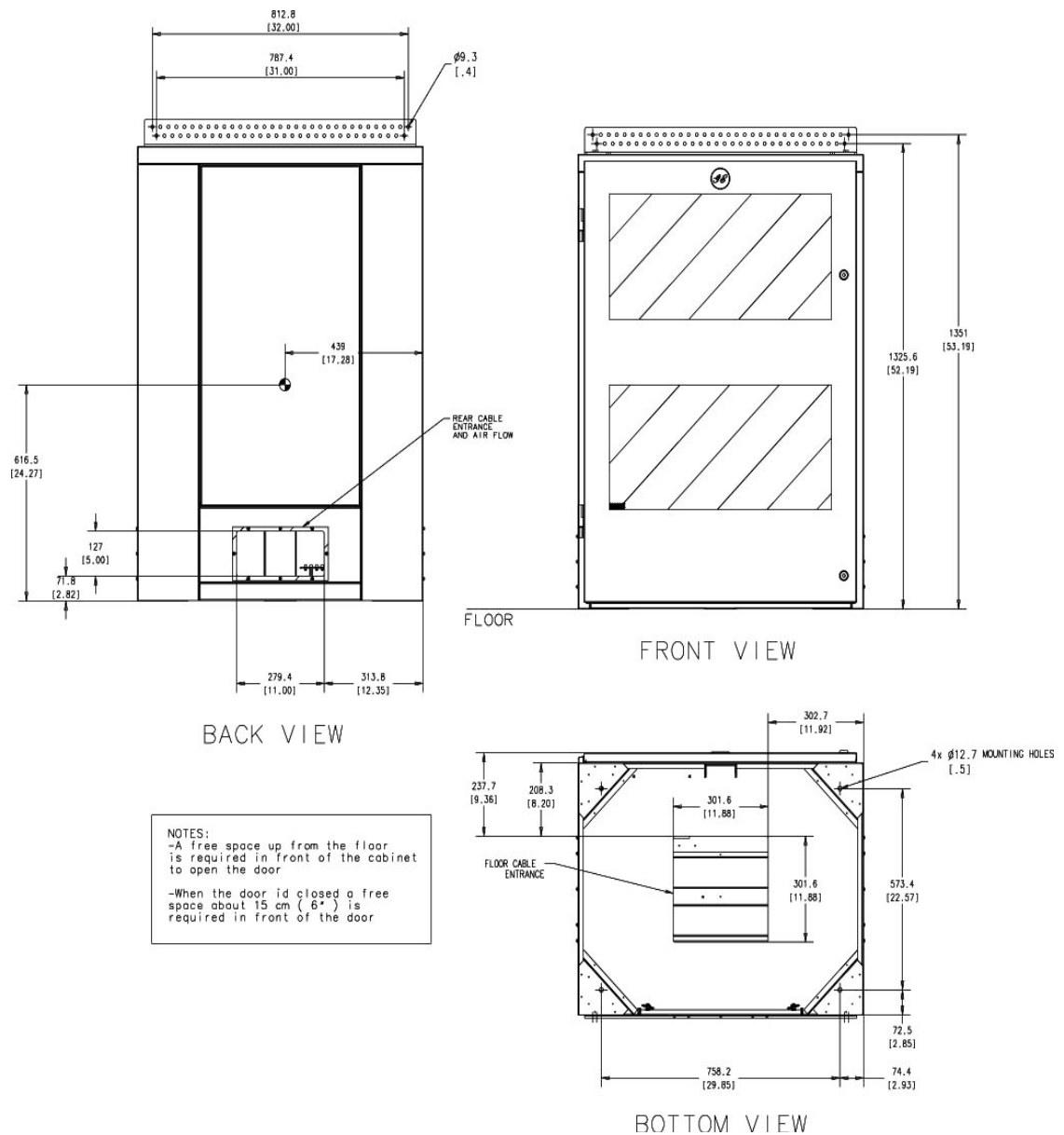


Figure 5-10 System Cabinet Dimensions (Front, Bottom, Back)

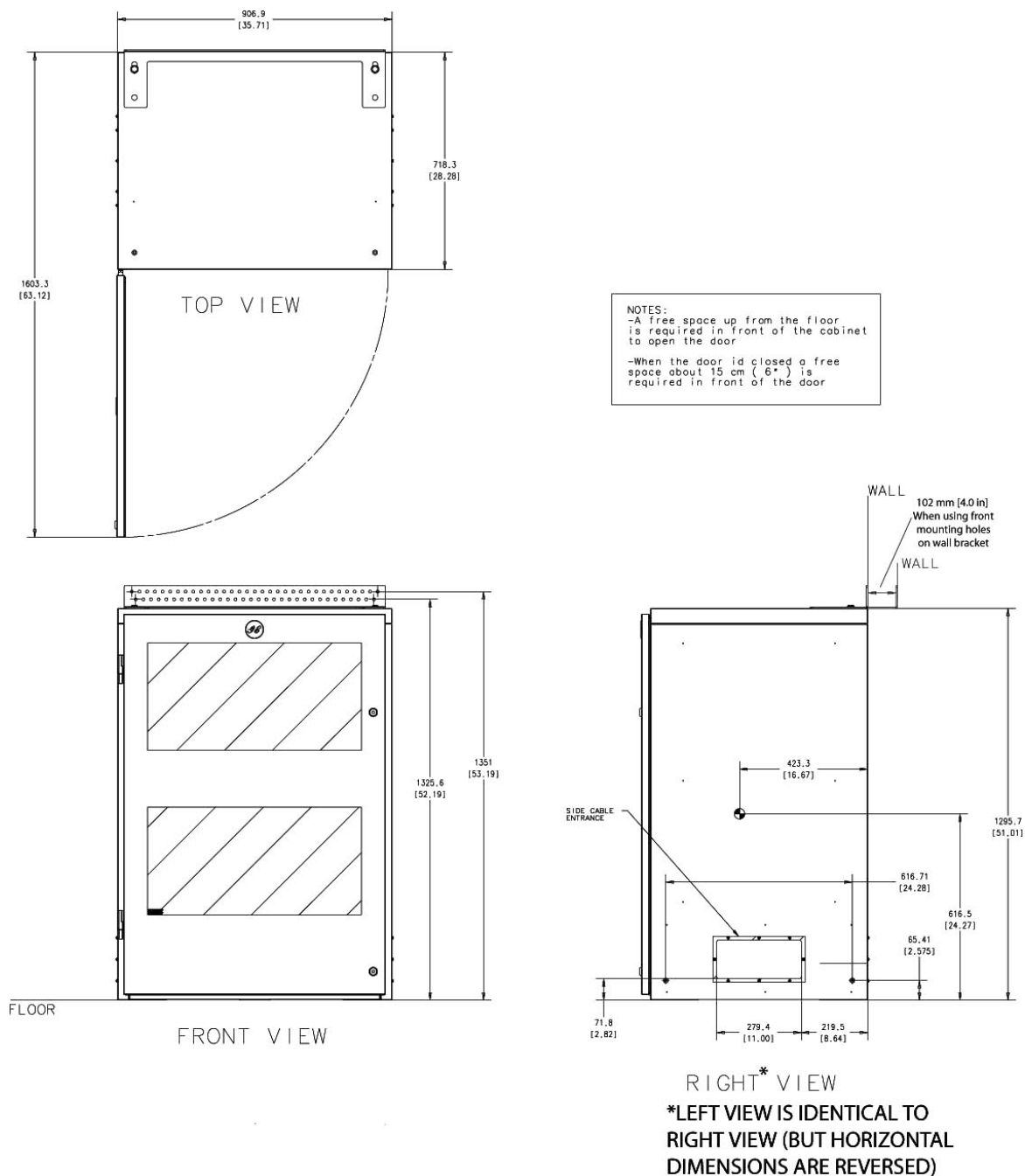


Figure 5-11 System Cabinet Dimensions (Front, Top, Right)

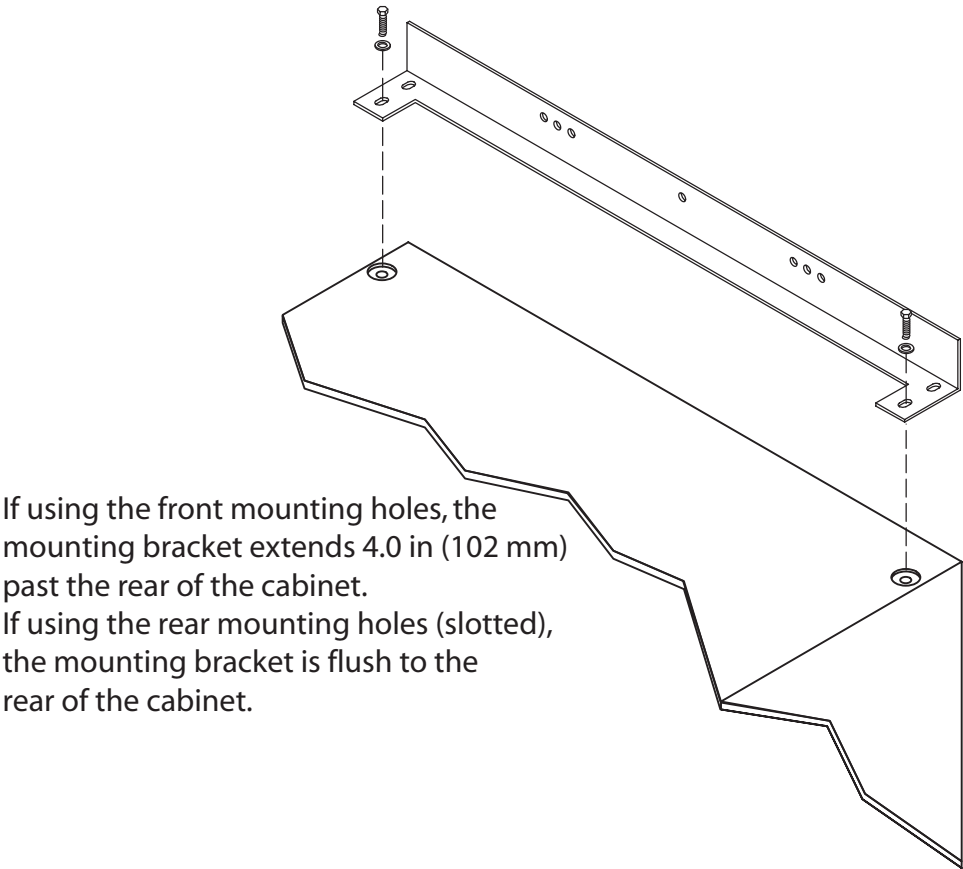


Figure 5-12 System Cabinet Wall-Mount Bracket

Values represent Maximum Values (Actual values may vary but will not exceed those specified)

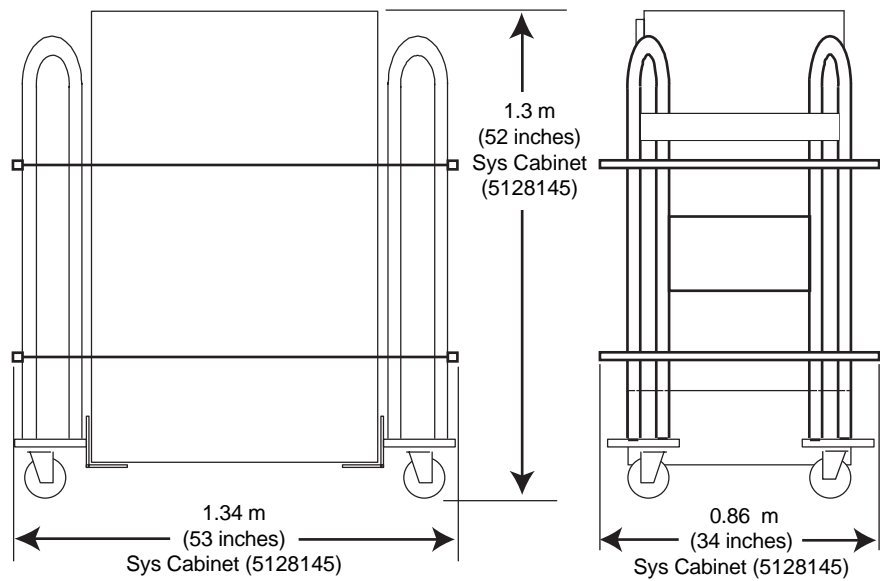


Figure 5-13 Typical Illustration Showing Shipping Dolly Dimensions

2.2.6 Grid Holder (Option)

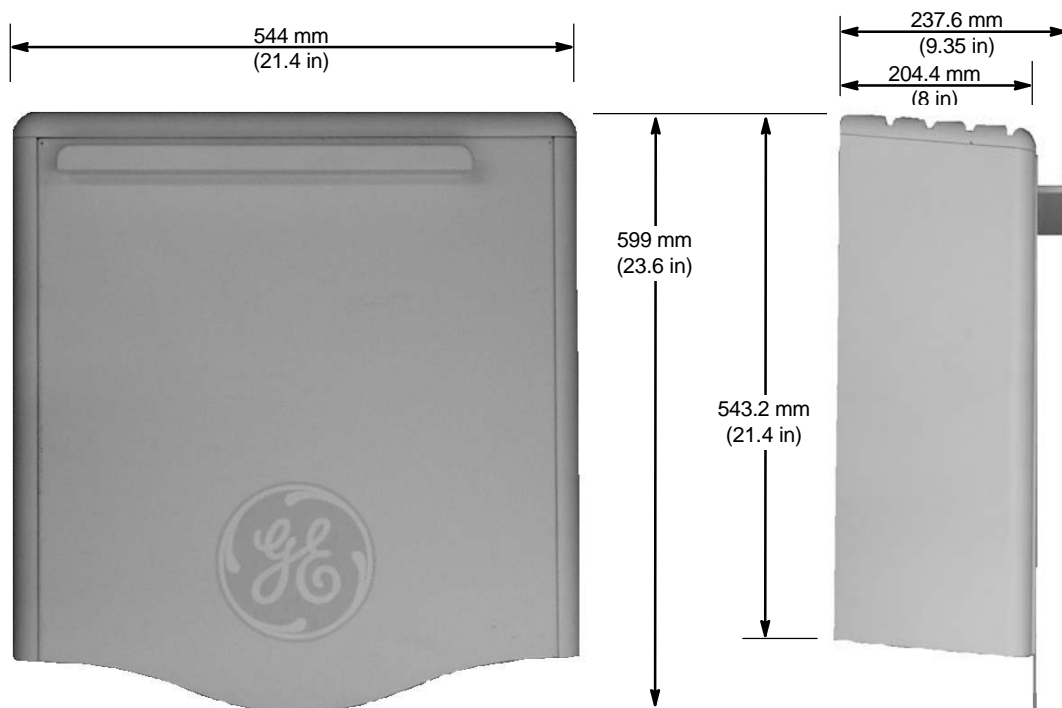


Figure 5-14 Grid Holder Dimensions

2.2.7 Over-Head Tube Support (OTS)

The OTS comprises a system for suspending and supporting an X-ray tube unit and collimator. It employs a spring counterpoise mechanism to balance these loads. The OTS's main components are the stationary rails, the bridge and the support column.

Cables to and from the OTS Suspension are attached to the OTS bridge and stationary rails by a cable drape system.

2.2.7.1 Weights

COMPONENT	WEIGHT (KGS.)
2 STATIONARY RAILS (LONG 4 m)	48 kg
2 m BRIDGE AND CURVED RAIL	58.3 kg
3 m BRIDGE AND CURVED RAIL	70 kg
CARRIAGE AND COLUMN ASSEMBLY	130 kg
CABLE AND MISCELLANEOUS PARTS	53 kg
X-RAY TUBE UNIT	29.5 kg
AUTO COLLIMATOR	14.1 kg
TOTAL	387.6 kg

Table 5-2 OTS RAD Suspension Weights

2.2.7.2 Dimensions and Layout

Note: Without table or no wall stand tilting 90 degrees application, the minimum ceiling height can be less than 2745 mm, or the minimum ceiling height must be 2745 mm, otherwise, OTS may collide with wall stand. For details, please refer to [Figure 5-18](#) and formula, but before that, please make sure that the wall stand should be at 0 degree.

[Figure 5-15](#) shows basic overall dimensions for an OTS Suspension. [Figure 5-17](#) through [Figure 5-21](#) give layout dimensions for a typical OTS Suspension System. The equipment arrangements shown are generally preferred since they result in good utilization of equipment for the most commonly used procedures.

[Table 5-4](#) lists major layout factors and concerns which need to be considered. Carefully check room layouts for adequate radiographic coverage, necessary clearances and provision for related equipment. Good judgement is required to avoid compromising important features. There must be ample maneuvering space allowed for the hospital cart and for personnel around the table.

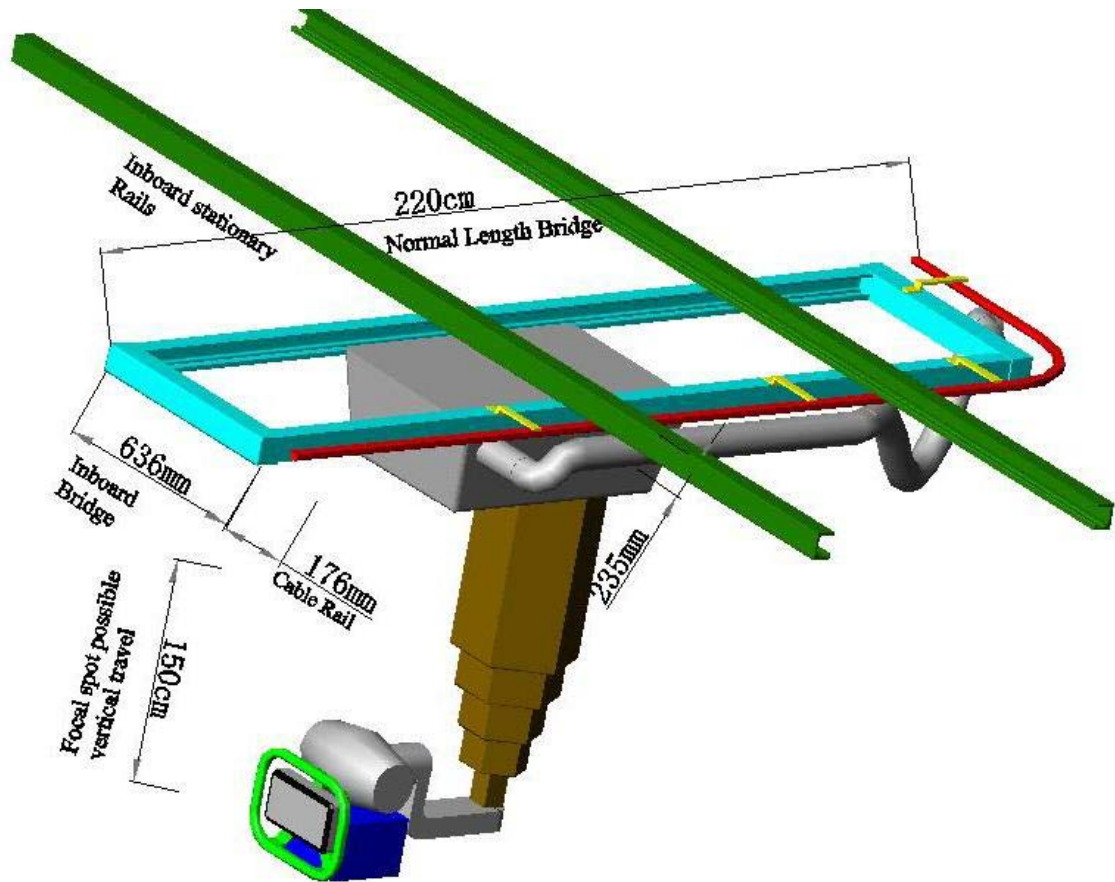


Figure 5-15 OTS Suspension - 2 m Bridge

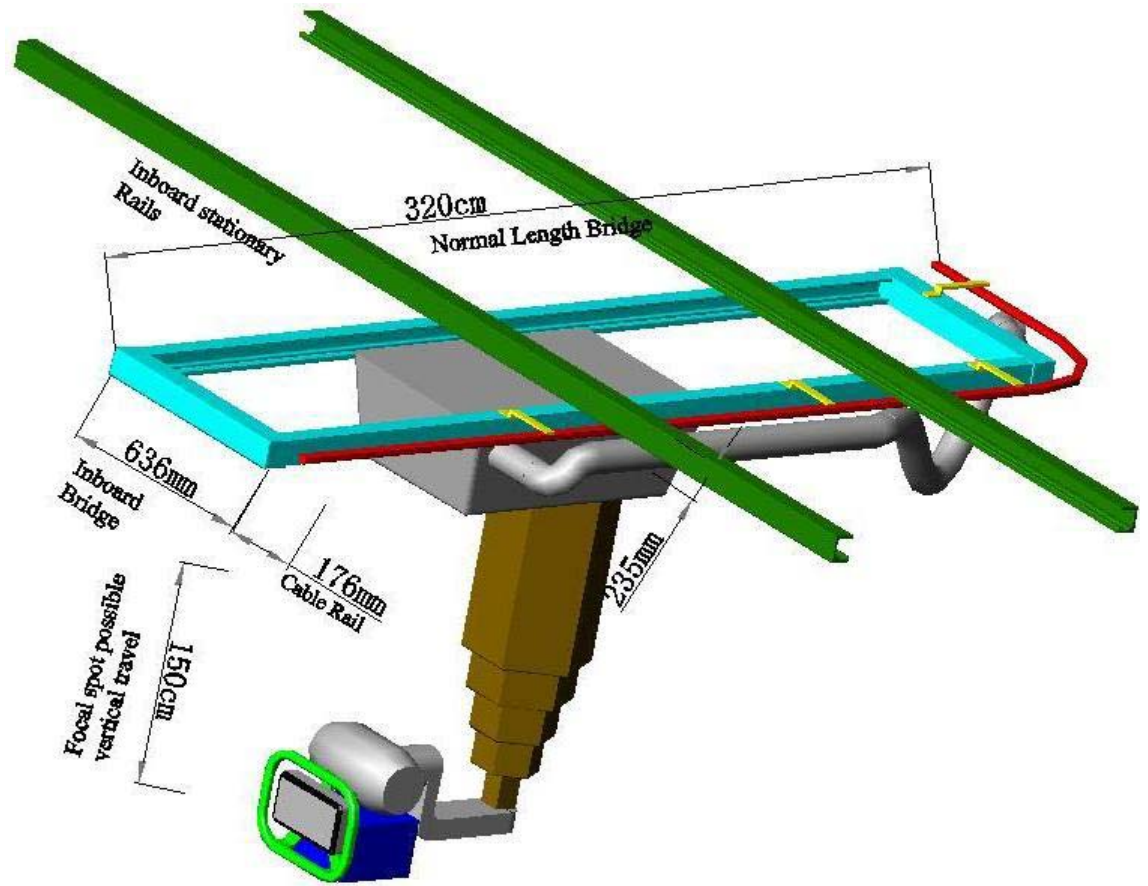


Figure 5-16 OTS Suspension - 3 m Bridge

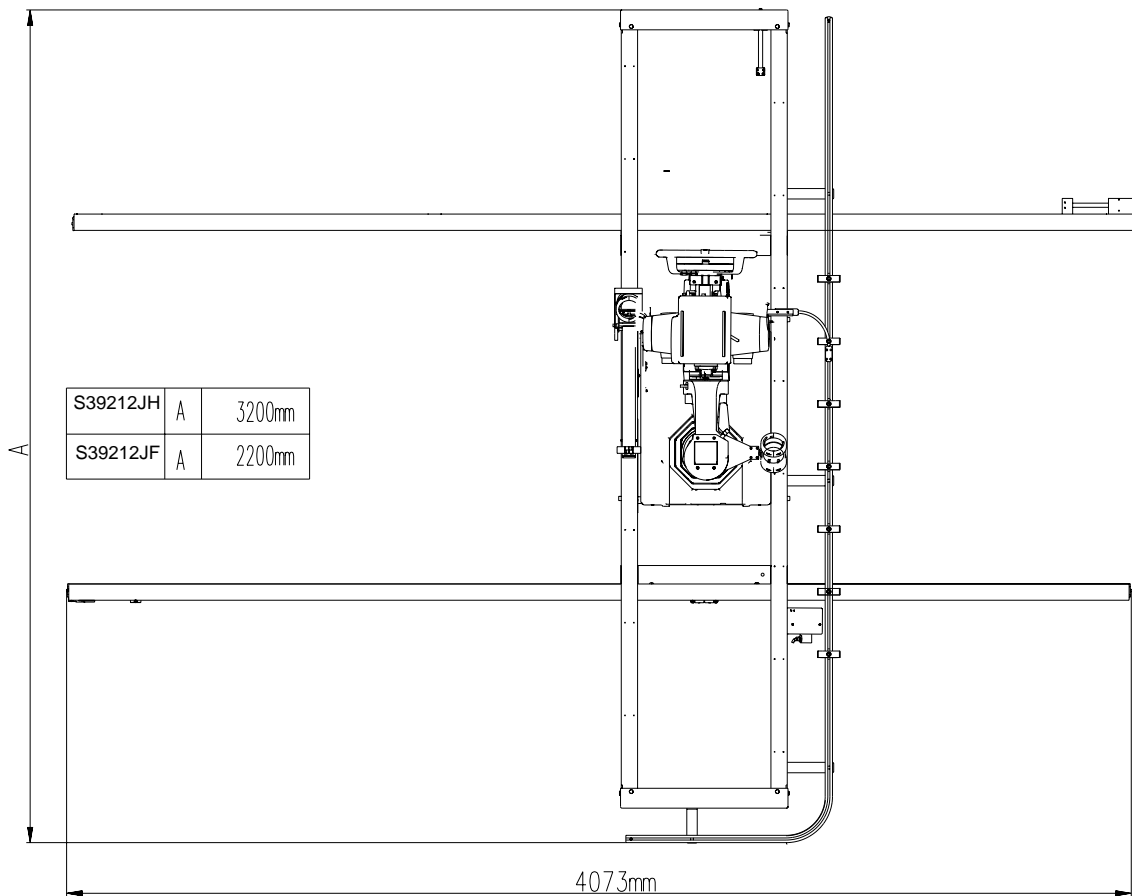


Figure 5-17 OTS Suspension Foot-End View

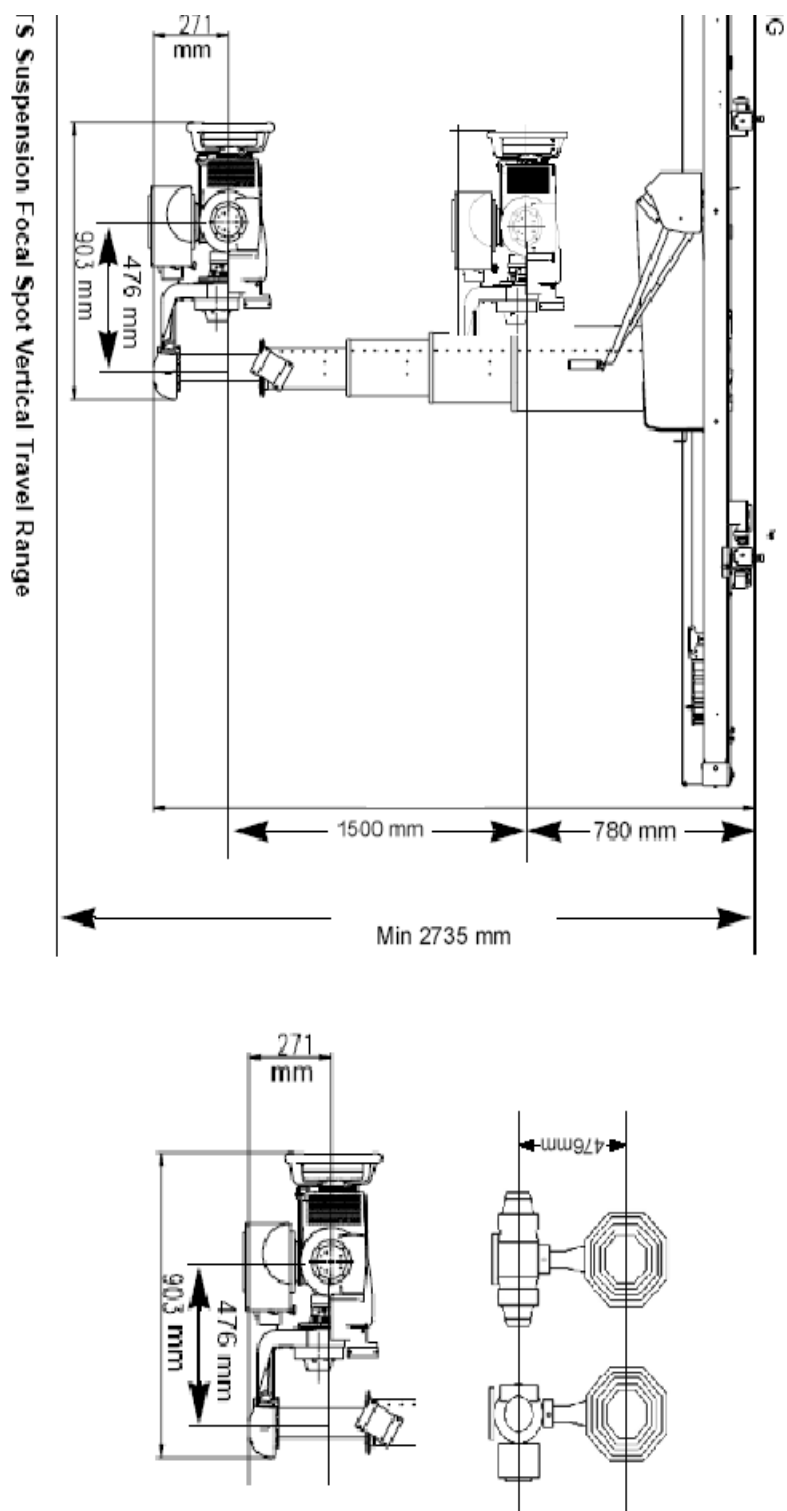


Figure 5-18 OTS Suspension Focal Spot Vertical Travel Range

Note: Without table or no wall stand tilting 90 degrees application, the minimum ceiling height can be less than 2745 mm, or the minimum ceiling height of the OTS mount must be 2745 mm, otherwise, OTS may collide with wall stand. For details, please refer to [Figure 5-18](#) and formula below, but before that, please make sure that the wall stand should be at 0 degree.

Note: Tube focal spot moving range = 1500 mm.

The focal spot location from the false-ceiling, min = 780 mm, max = 2280 mm.

The focal spot height to the floor is:

min = OTS mount height (False-Ceiling) - 780 mm

max = OTS mount height (False-Ceiling) - 780 mm - 1500 mm.

Example: For example, the OTS mount is 2900 mm; the focal spot moving range to the floor is 620 mm (2900-780-1500) to 2100 mm (2900-780).

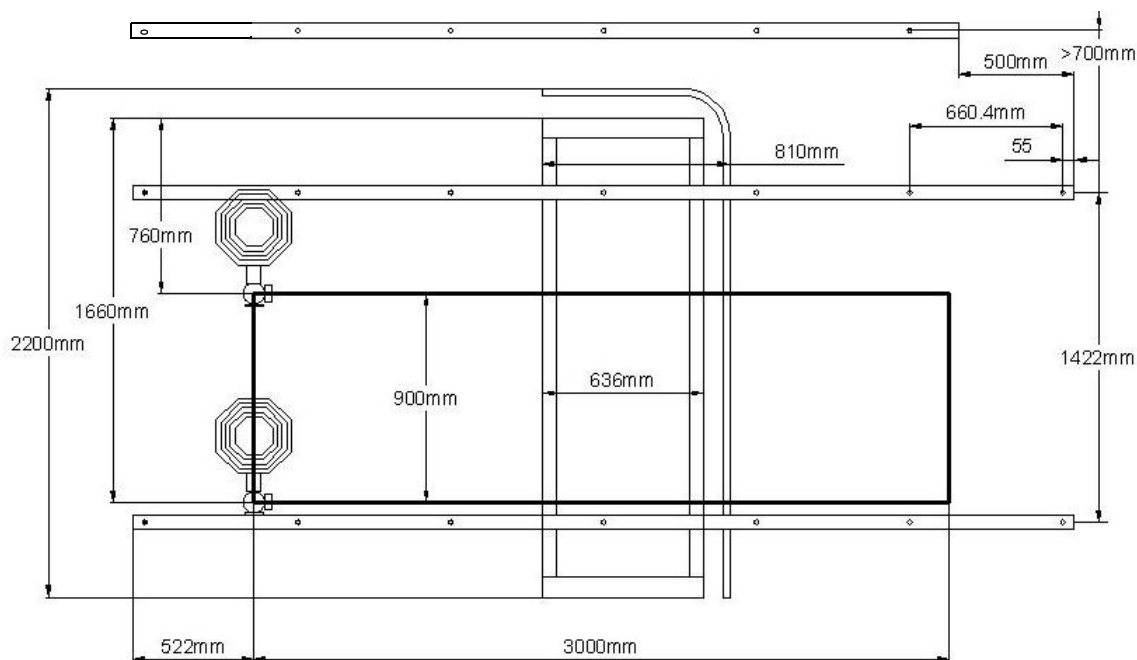


Figure 5-19 OTS Suspension Focal Spot Longitudinal and Lateral Travel Range - 2 m Bridge

Figure 5-20 OTS Suspension Focal Spot Longitudinal and Lateral Travel Range - 3 m Bridge

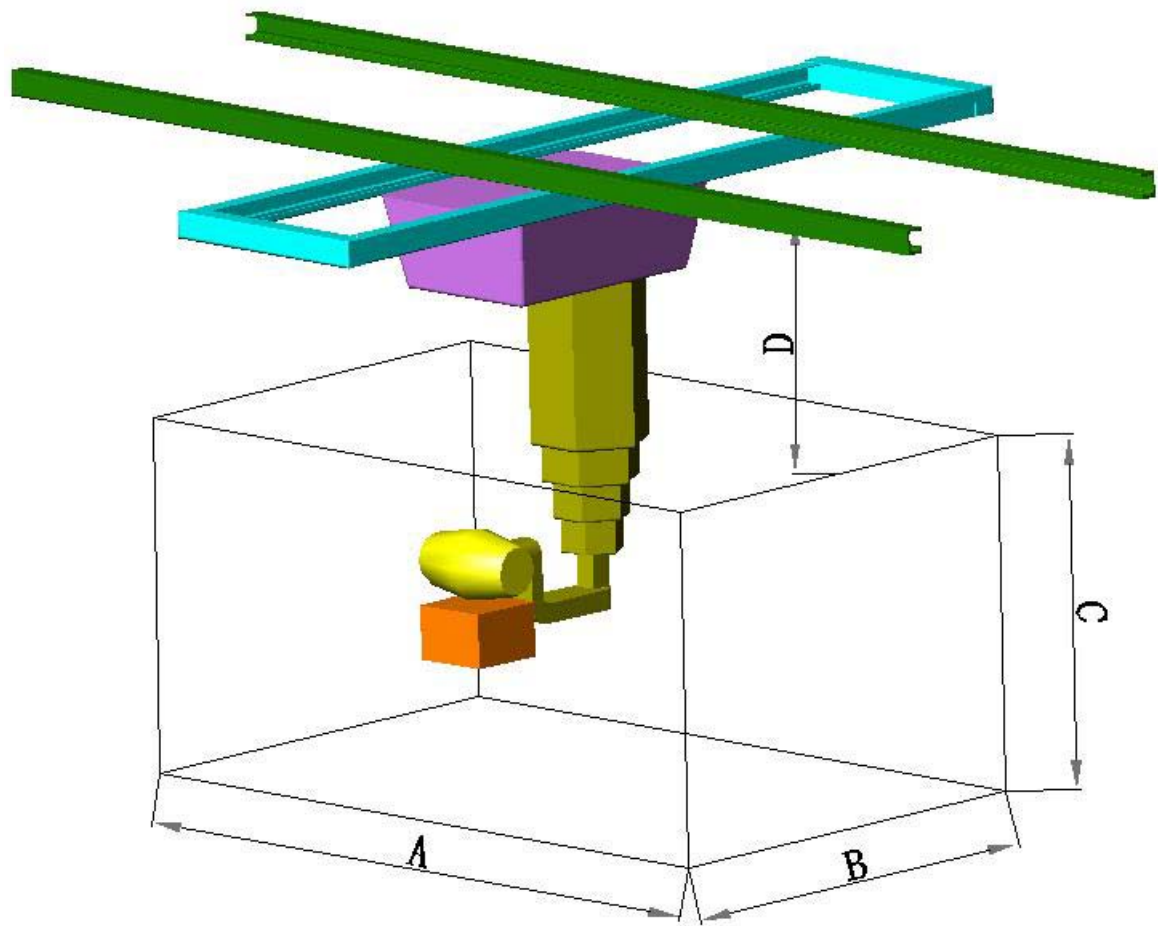


Figure 5-21 Focal Spot Travel Range

TRAVEL RANGE (mm)	DESCRIPTION
A = 3000	Focal Spot Horizontal Travel Range (parallel to rail)
B = 1900 (3 m bridge) / 900 (2 m bridge)	Focal Spot Horizontal Travel Range (vertical to rail)
C = 1500	Focal Spot Vertical Travel Range (vertical to rail)
D = 780	Rail to Highest Focal Spot

Table 5-3 Focal Spot Travel Range

FACTORS TO BE CONSIDERED	PERTINENT INFORMATION
1.) Vertical operating range of OTS Suspension.	Generally, a 2745 mm stationary rail height is minimum.
2.) Distance between center lines of ceiling mounting bolt holes in stationary rails. 1.42m spacing is recommended and should be used with all new structures.	1422 mm Adjustment is provided to permit a +/- 6 mm variation of this span; however, this tolerance does not have anything to do with degree of parallelism of the stationary rails, which must be held to +/- 3 mm
3.) Minimum overall room dimension, front-to-back, without modifying basic structure.	4.0 m
4.) Clearance for longitudinal shift top excursion. Allow clearance for cart work at head end of the table.	Preferably, there should be walking space between the end of the extended table top and any obstruction.
5.) Heat from overhead spotlights.	Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling-mounted components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls. Do not mount lights directly above areas where ceiling mounted accessories will be parked.

Table 5-4 OTS Suspension Layout Factors

2.2.7.3 OTS Extensions (Option)

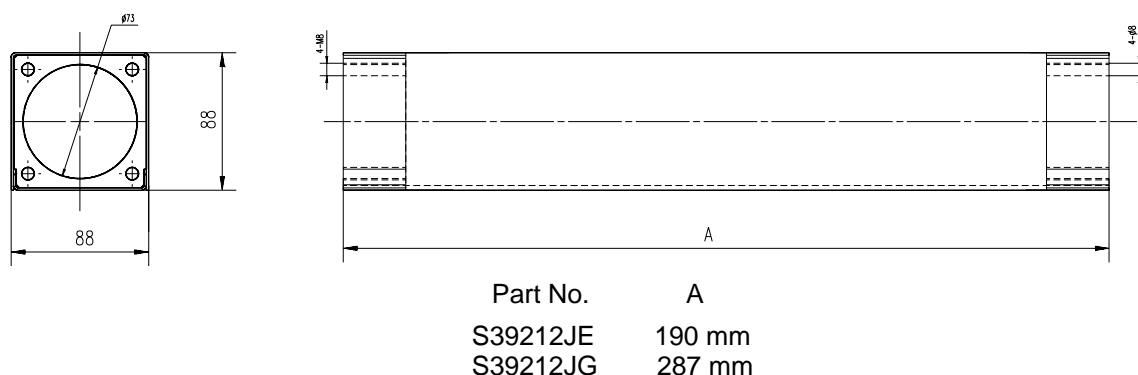


Figure 5-22 OTS Extension

Note: Tube focal spot moving range = 1500 mm.

With long OTS extension, the focal spot location from the false-ceiling, min = 1067 mm, max = 2567 mm.

The focal spot height to the floor is:

min = OTS mount height (False-Ceiling) - 1067 mm

max = OTS mount height (False-Ceiling) - 1067 mm - 1500 mm.

With short OTS extension, the focal spot location from the false-ceiling, min = 970 mm, max = 2280 mm.

The focal spot height to the floor is:

min = OTS mount height (False-Ceiling) - 970 mm

max = OTS mount height (False-Ceiling) - 970 mm - 1500 mm.

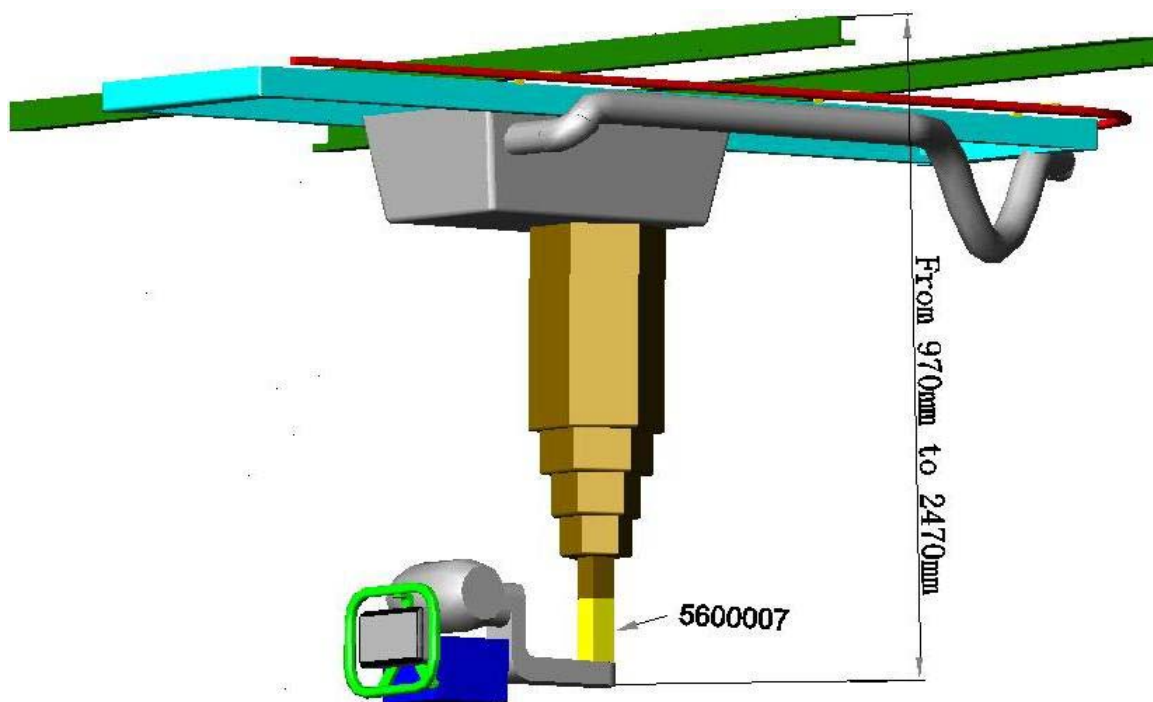


Figure 5-23 OTS Extension_Short

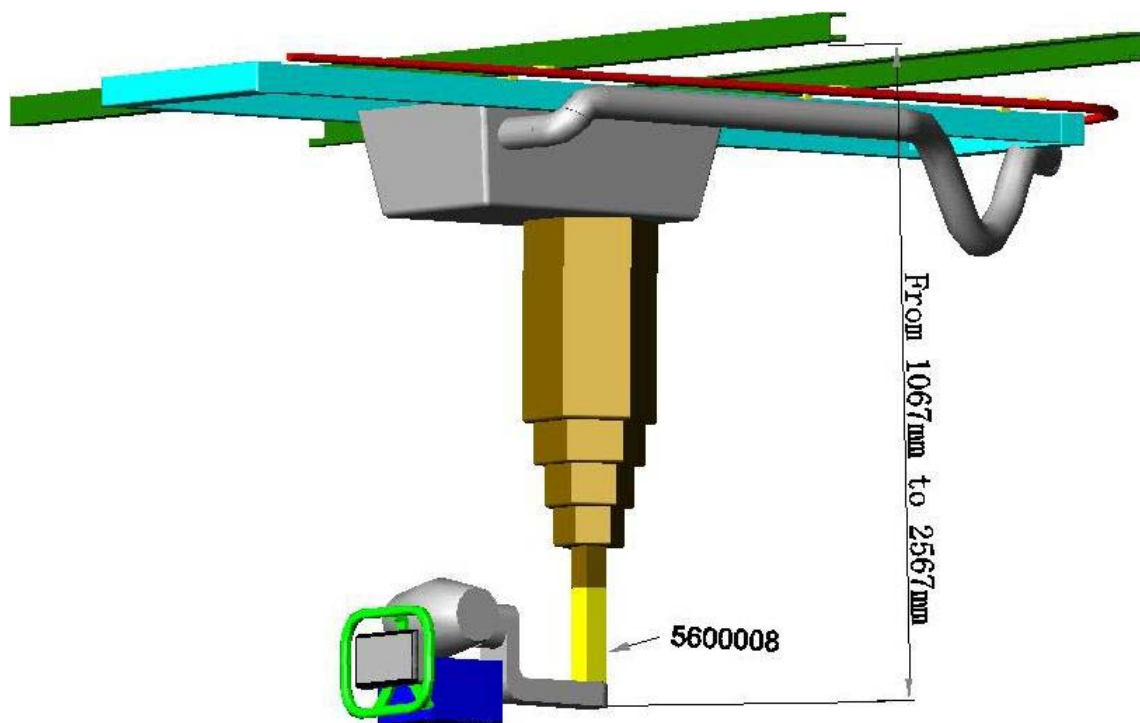


Figure 5-24 OTS Extension_Long

2.2.8 Wall Stand

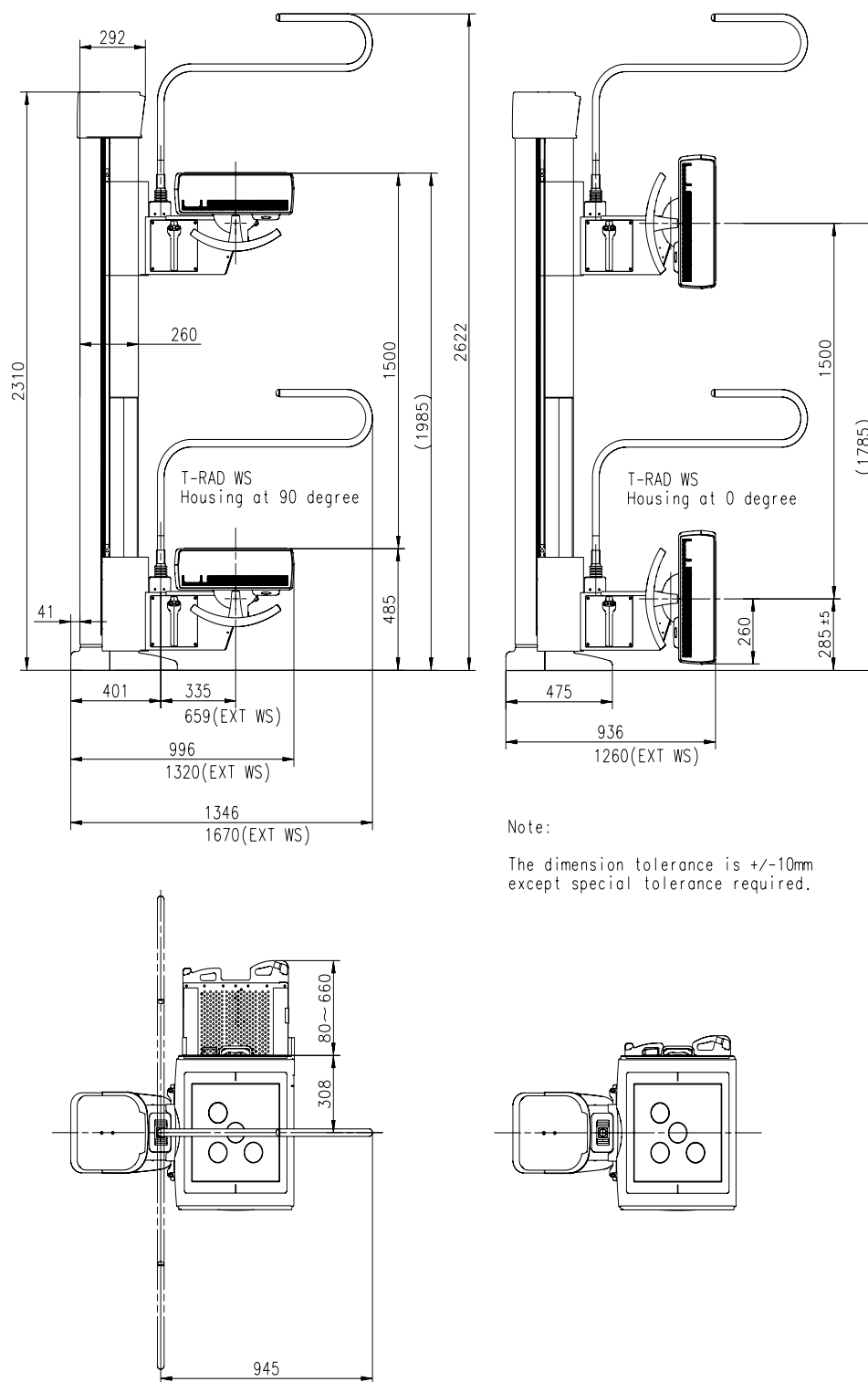


Figure 5-25 Wall Stand Dimensions

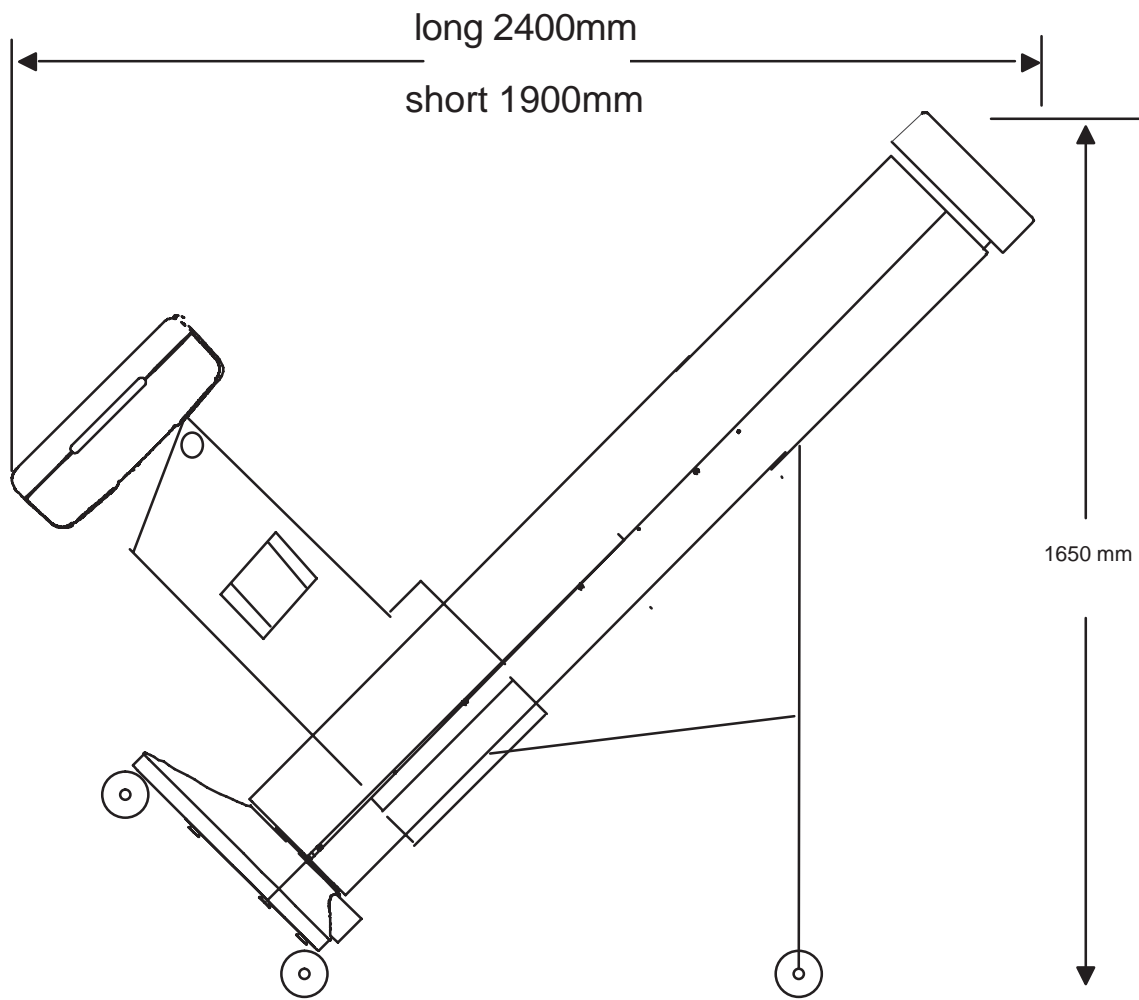
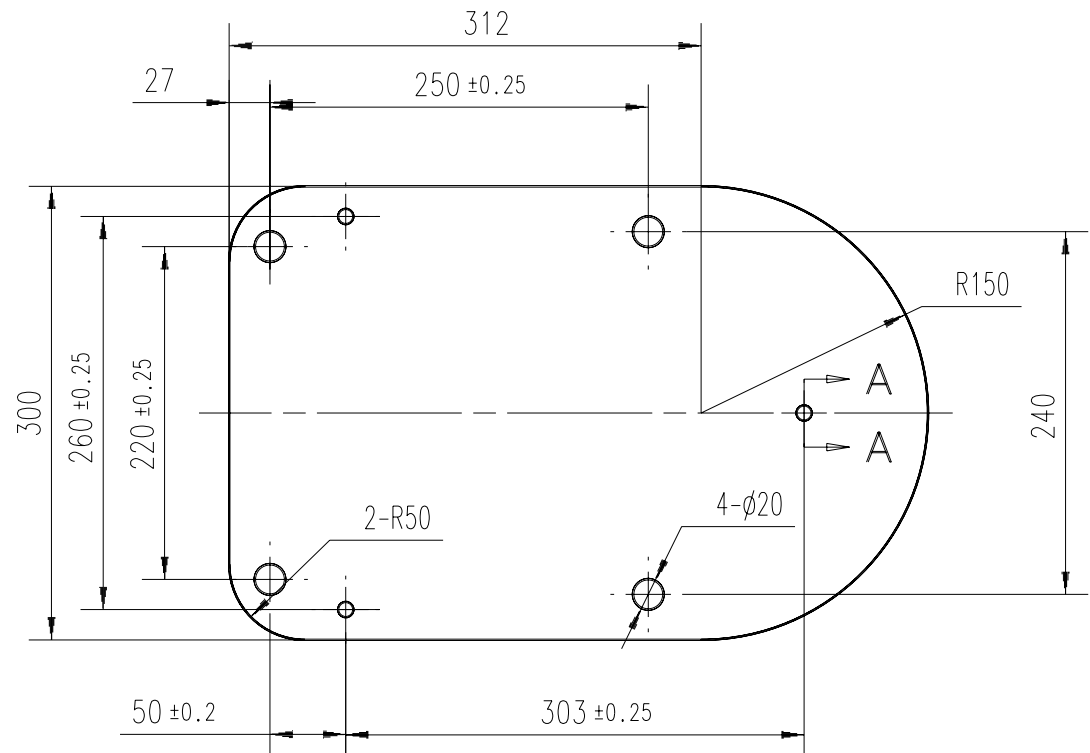


Figure 5-26 Wall Stand Bended on Dolly

Note: This drawing is not precise and is used only to show the approximate positioning.

**Figure 5-27 Wall Stand Template Dimensions**

Section 3.0

Positioning and Mounting Equipment

3.1 Floor / Ceiling Loading and Recommended Mounting Methods

PRODUCT OR COMPONENT	WEIGHT kg	LOAD BEARING AREA m ²	WEIGHT/OCCUPIED AREA kg/m ²	RECOMMENDED MOUNTING INFORMATION
Operator Console: PC Tower Monitor	19-24 kg 8.2 kg		NA NA	Shelf/Table mount (not anchored)
Overhead Tube Support Includes: carriage, collimator, tube, and OTS console	236.6 kg		NA	
2 m Bridge and Curved Rail	58.3 kg		NA	
3 m Bridge and Curved Rail	70 kg		NA	
Cable and Miscellaneous Parts	53 kg		NA	
OTS Rails	48 kg		NA	
Stretcher Table (Option)	160 kg Max. Patient Load = 220 kg		NA	
Digital Table (Option)	450 kg	0.838 m ²	537kg/m ²	150 Rawl anchors to floor (supplied)
Wall Stand	260 kg	0.129 m ²	2016kg/m ²	150 Rawl anchors to floor (supplied)
Extended Wall Stand	280 kg	0.129 m ²	2171kg/m ²	150 Rawl anchors to floor (supplied)
Detector	6.5 kg		NA	
System Cabinet	308 kg	0.65 m ²	474 kg/m ²	Recommended: •10 mm (4) anchors to floor •8 mm (2) anchors to wall (Mounting hardware not provided by GEHC)
Grid Holder Assembly (Option)	15.5 kg (34 lbs)		NA	Mount on wall

Table 5-5 Product Physical Characteristics (weight)

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Chapter 6 - Room Layout

Section 1.0 Radiation Production

Because X-ray equipment produces radiation, you may need to take special precautions or make special site modifications. The General Electric Company does not make recommendations regarding radiation protection. It is the purchaser's responsibility to consult a radiation physicist for advisement on radiation protection in X-ray rooms.

Section 2.0 Service Access

Allow appropriate space for service access of equipment, per country and regional requirements.

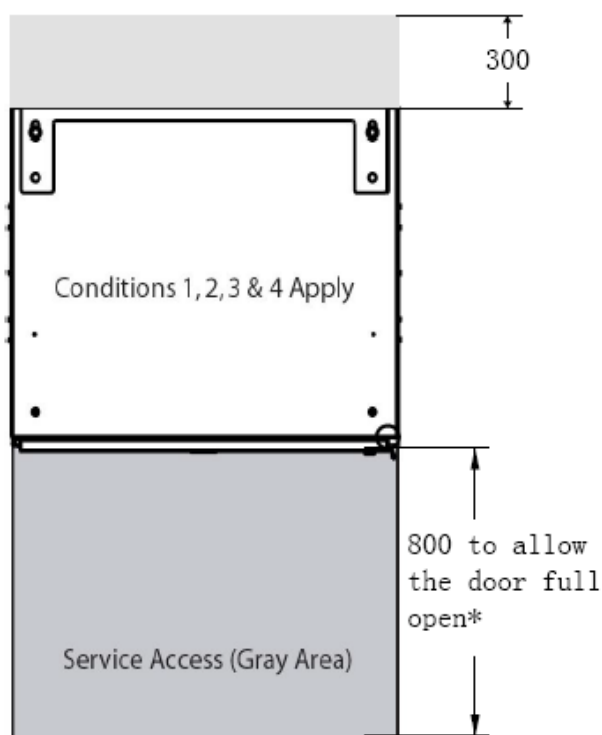


Figure 6-1 System Cabinet (* 500-800 is ok, in this case the door can not be fully opened. Disassemble the door if needed.)

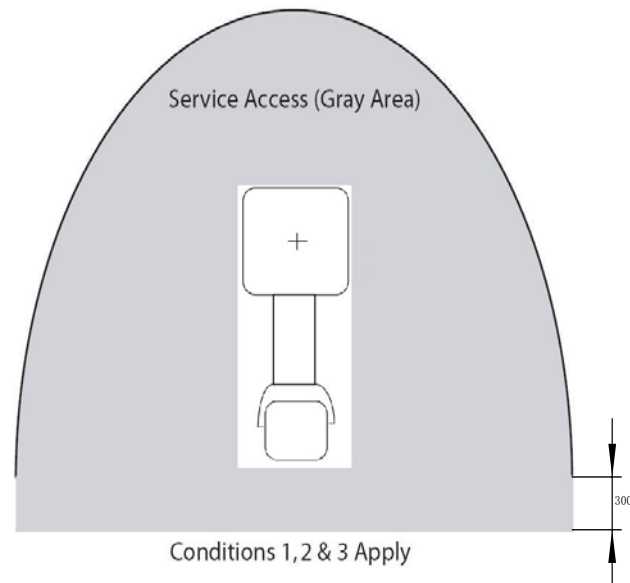


Figure 6-2 Wall Stand

No specific conditions exist for Workstation Service Access. There are no exposed electrical hazards present.



Figure 6-3 Workstation

No specific conditions exist for OTS Service Access. Position the OTS as required to obtain sufficient Service Access.

Section 3.0 Clinical Access

Make sure that you plan the room with the following clinical access requirements:

- Provide easy access to the patient table. Stretchers and other mobile hospital equipment must reach the table quickly.
- Clinicians at the patient table must be able to communicate with assistants in the control area.
- Operators in the control area must have easy access to the Operator Console. However, position the controls (including handswitches) so the operator cannot take exposures while looking around or standing outside the control booth's lead glass window.

- Consult customer on the number and location of nonelectrical lines (air, oxygen, vacuum, water, etc.) in the radiographic room.
- Provide easy access to the Wall Stand.
- For the wallstand, ensure that the room layout is such that the tube can be centered on top of the horizontal detector.

Note: The generally accepted practice is to load the patient laterally.

Section 4.0

Peripheral Equipment

Consult hospital personnel regarding additional space requirements for the following types of hospital equipment:

- Storage Cabinet
- Sinks
- Oxygen Stations
- Monitoring Equipment
- Crash Cart

Section 5.0

Room Layout Drawings

See [Figure 6-6](#) through [Figure 6-14](#) for typical Definium 6000 system room layouts.

⚠ WARNING

The room layout shows the minimum room size that system needs, but customers should be required to prepare a room according with local regulatory requirements.

Note: You will notice that a minimum of 2200 mm of clearance is shown from the table frame to either end of the table; this is to allow the table top to be installed.

Keep workstation in open area.

There are 7 types of configuration, see [Figure 6-4](#) .

For room layout of each configuration, see [Figure 6-5](#) to [Figure 6-11](#)

.Note: 10 mm to 20 mm assembly tolerance is acceptable.

Layout configurations

Layout configurations

	Wall Stand	Bridge length, Wall stand position							
		2 m bridge				3 m bridge			
	Standard/Extended	Front	Back	Foot	Head	Front	Back	Foot	Head
WS only	Standard			✓	✓			✓	✓
	Extended			✓				✓	
Table only	NA	✓				✓			
WS + Table	Standard							✓	✓
	Extended							✓	

Comparing to FT2, add new configuration Ext WS + Table, and Standard WS only



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Figure 6-4 Layout Configuration

Ext/Std. WS only on foot side with 2m bridge

Focal spot coverage with column rotation = +90°

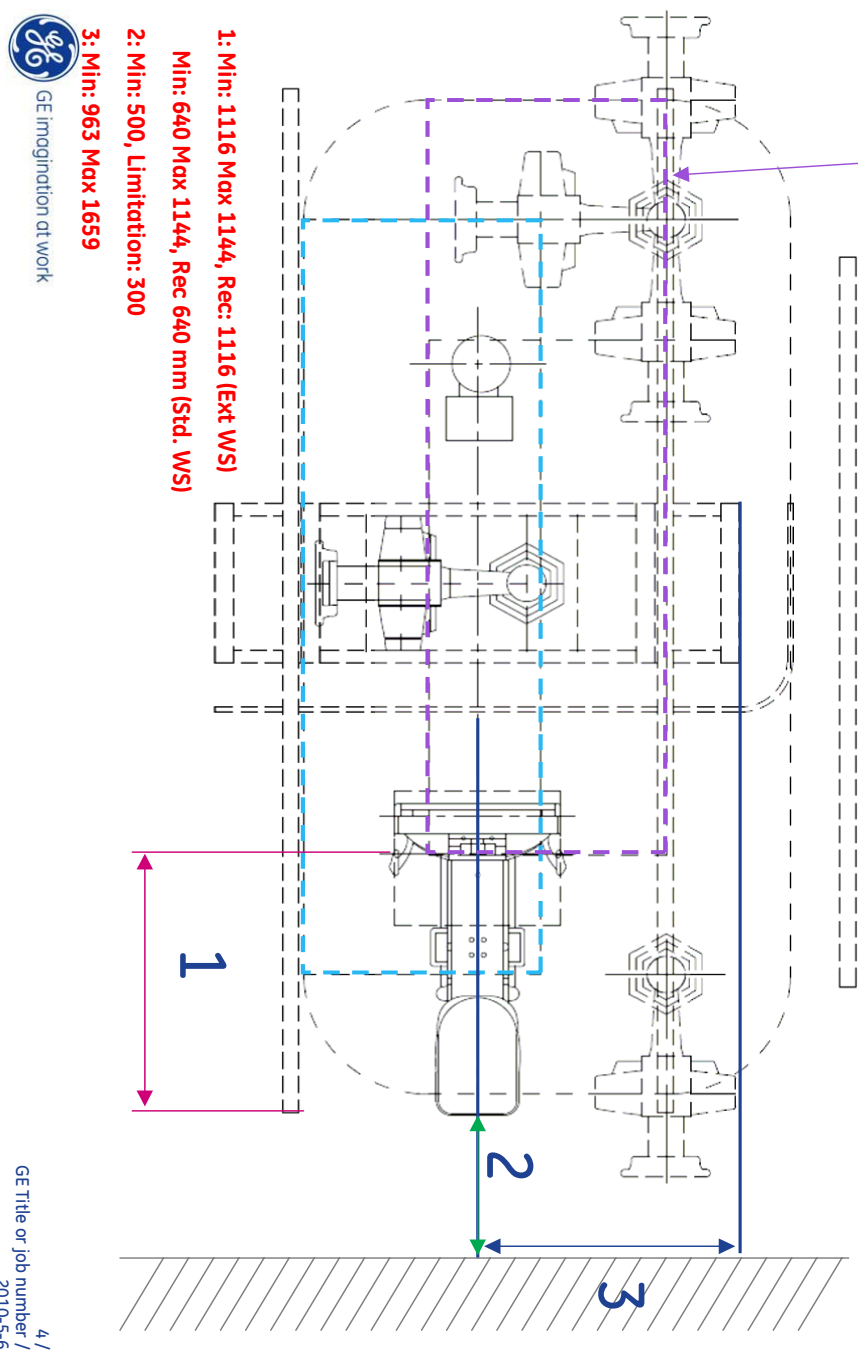


Figure 6-5

Ext/Std. WS only on foot side with 3m bridge

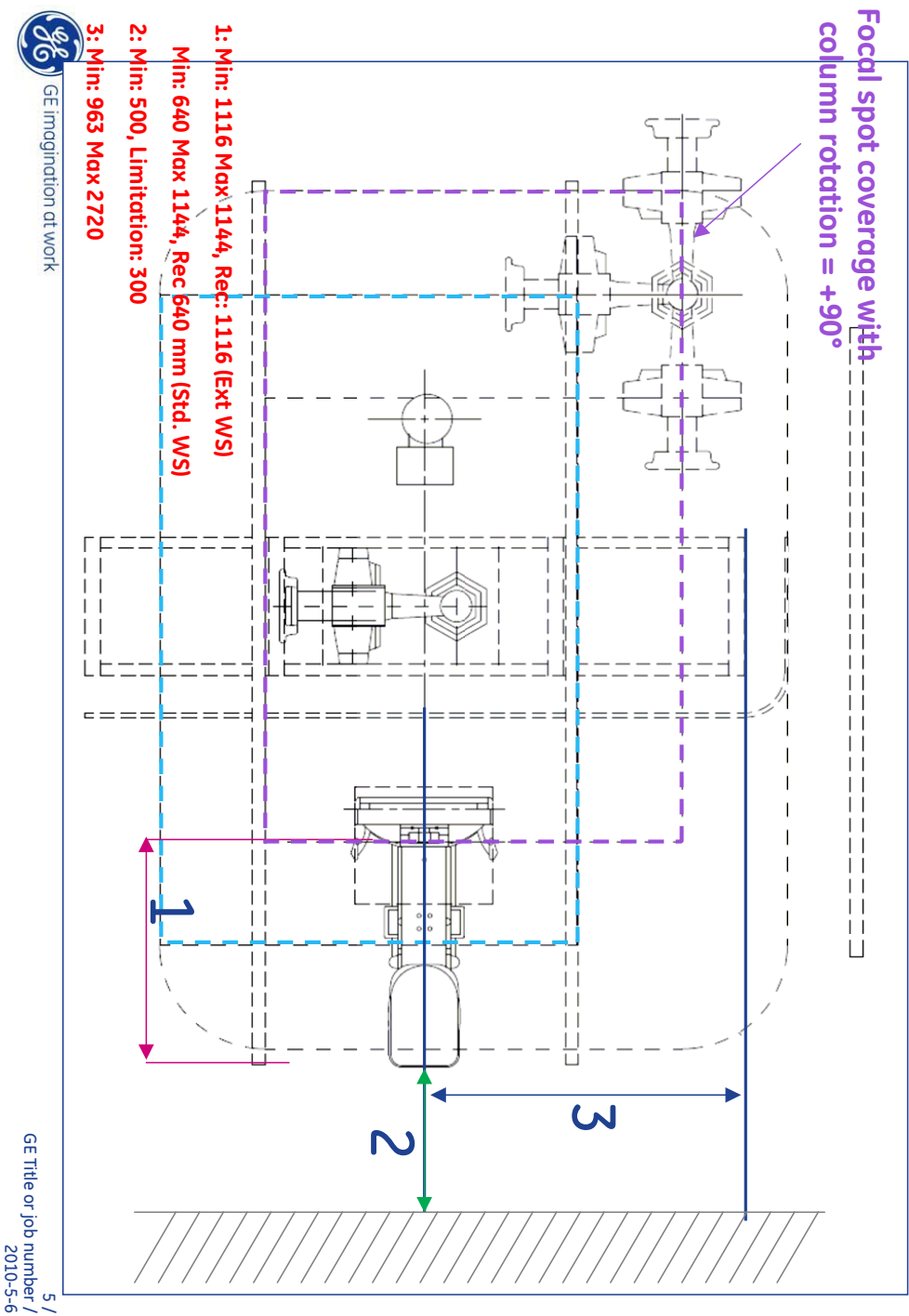
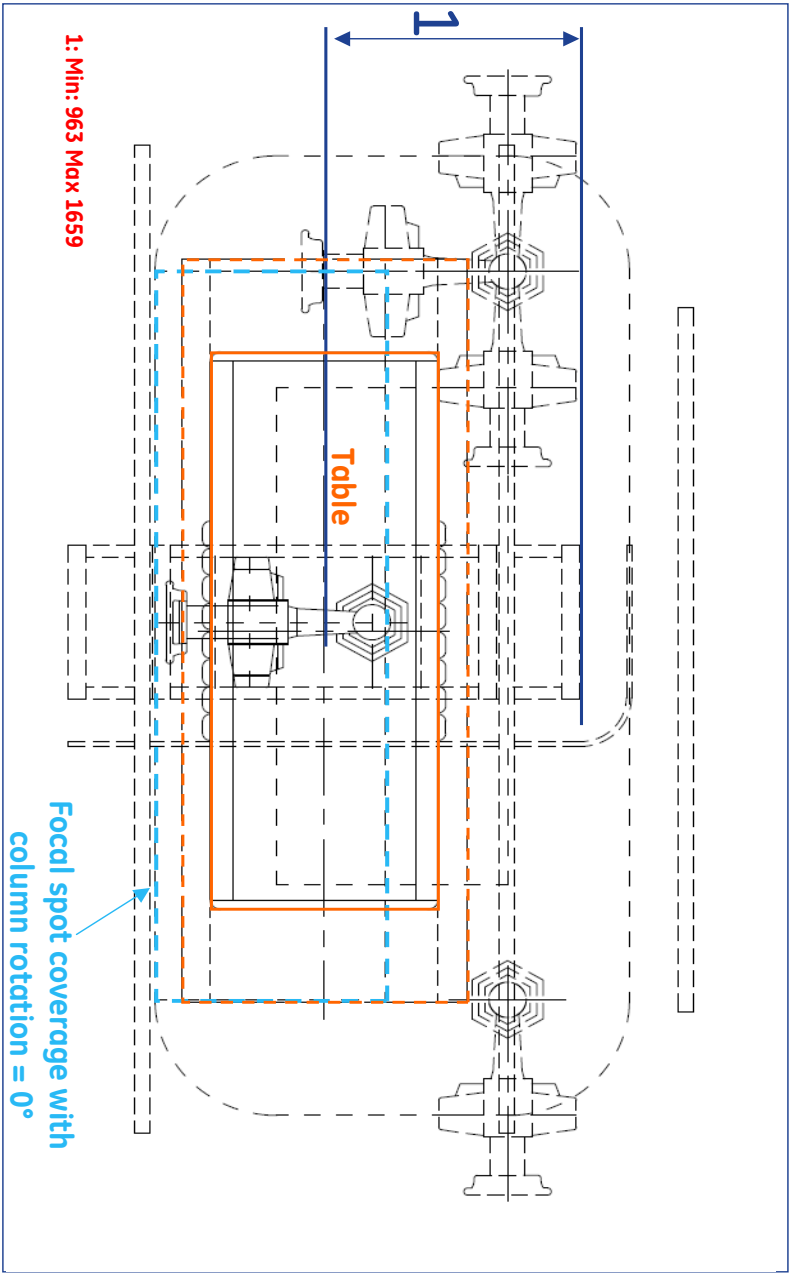


Figure 6-6

Table only with 2m bridge



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GE Title or job number /
2010-5-6

Figure 6-7

Table only with 3m bridge

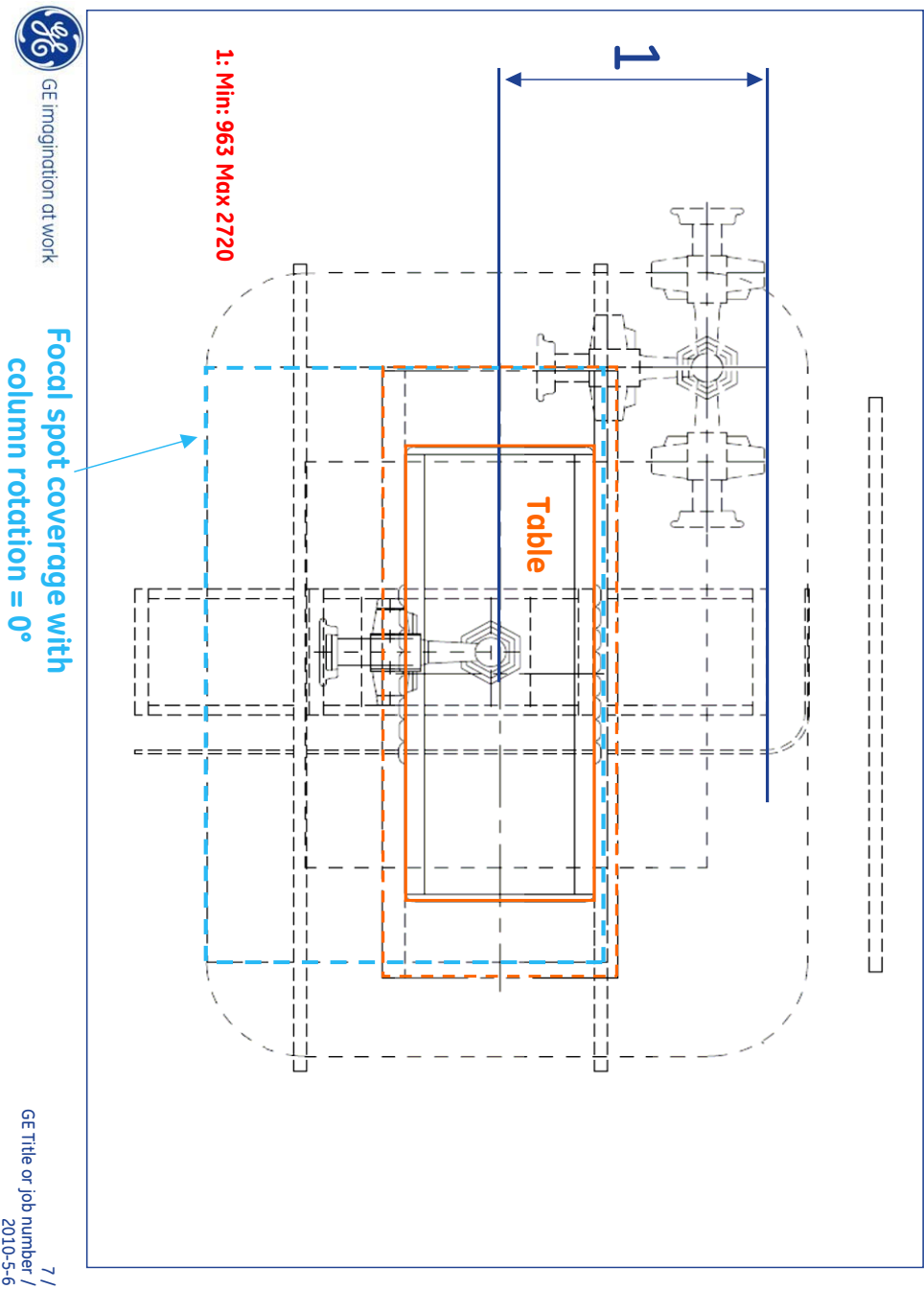


Figure 6-8

Table & Std WS on foot side with 3m bridge

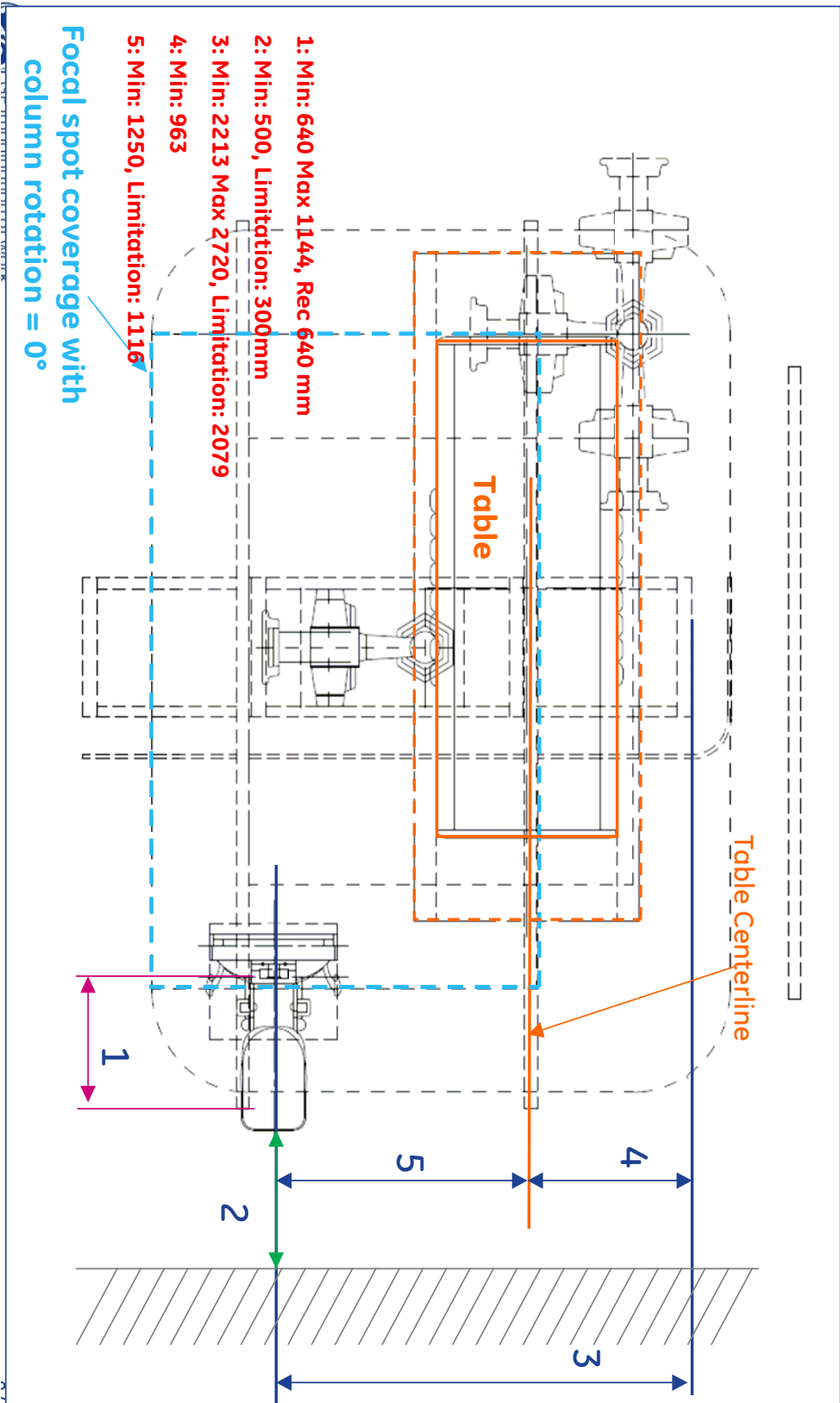


Figure 6-9

Table & Std WS on head side – 3m bridge

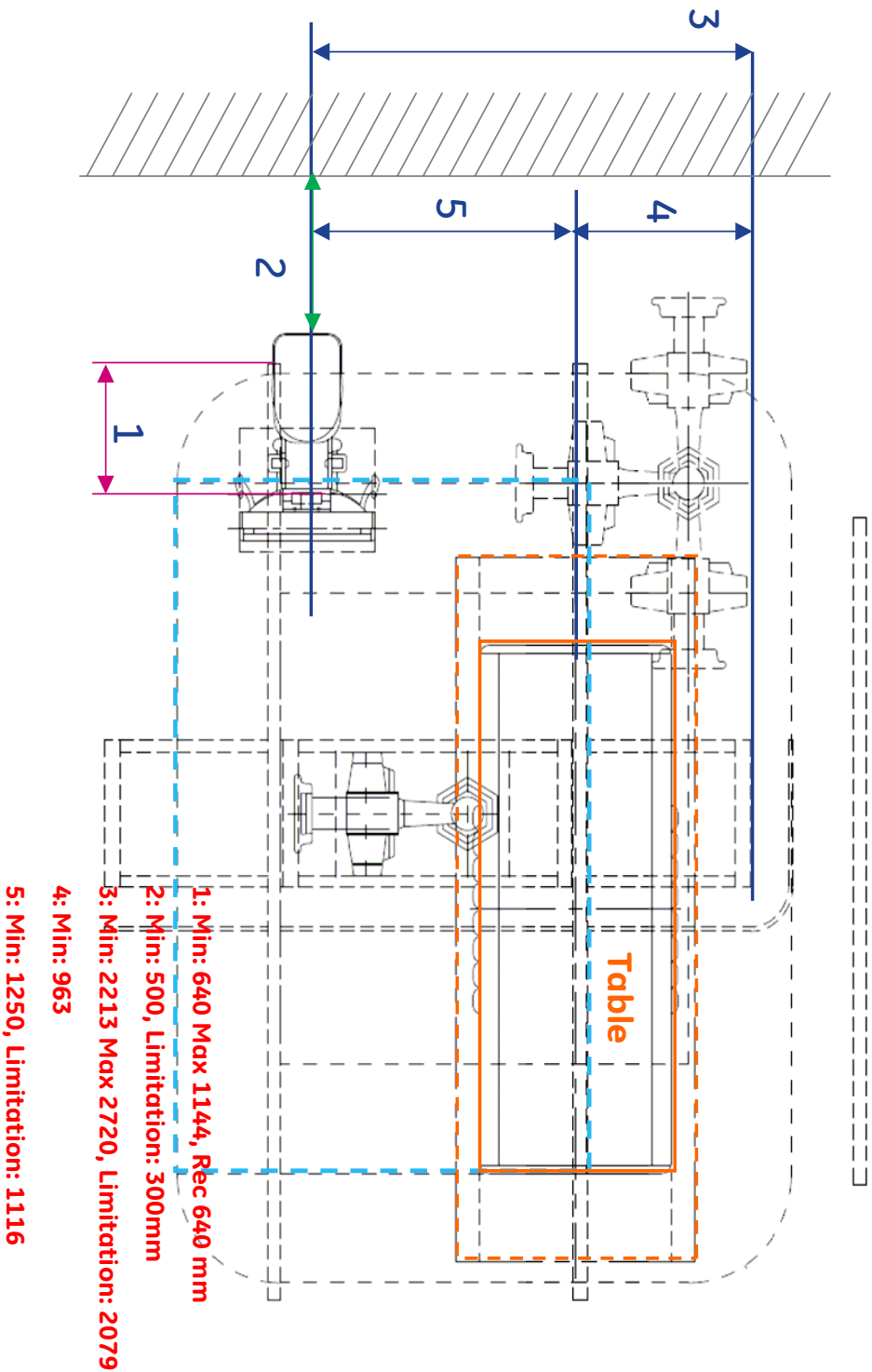


Figure 6-10

Table & Ext WS on foot side with 3m bridge

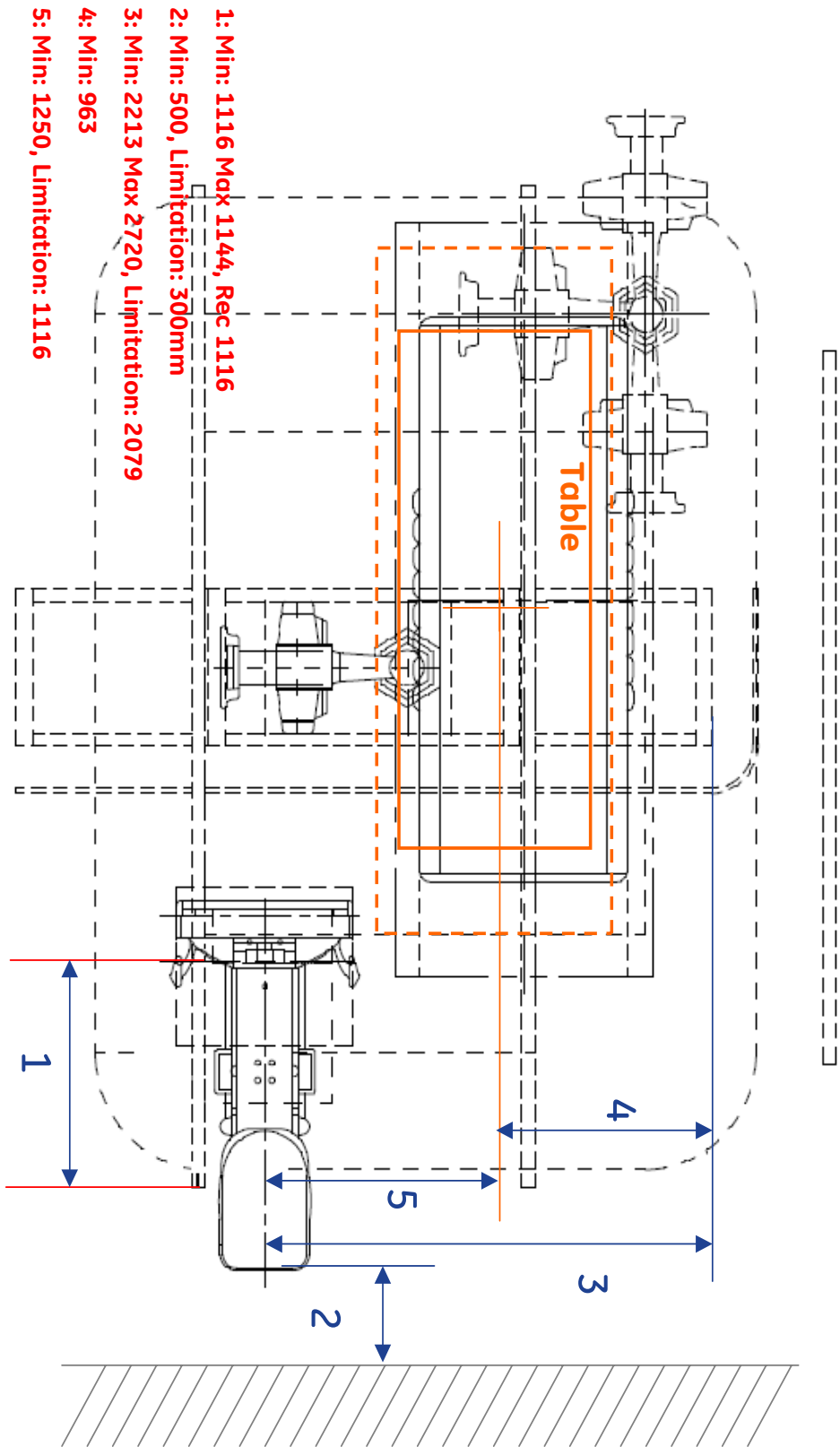


Figure 6-11

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Chapter 7 - Planning Aids

Section 1.0 Shipping Dimensions and Weights

PRODUCT OR COMPONENT	SHIPPING DATA					SHIPPING METHOD
	SHIPPING DIMENSIONS (APPROX.)			GROSS SHIPPING WEIGHT (approx.)	NET SHIPPING WEIGHT (approx.)	
	LENGTH (cm)	WIDTH (cm)	HEIGHT (cm)	(kg)	(kg)	
Workstation and Assembly	122	110	145	250	180	box including "OPEN ME FIRST" box
Table Assembly	240	110	130	602		
OTS	105	100	170	279	240	box
2 m Bridge and Cable Rail	244	95	90	58.3	190	box
or 3 m Bridge and Cable Rail	335	95	65	70	220	
OTS Rails	440	42	27	127	100	box
Wall Stand	260	112	175	600	400	box
Extended Wall Stand	260	112	205	635	416	
System Cabinet	158	102	160	419	308	box dolly - See Figure 5-13
Table (option)	235	117	110	267	160	

Table 7-1 Shipping Data

Section 2.0

Installation Tools and Materials Required

2.1 Tools and Materials Checklist

The following tools and materials are needed for installation, but are not shipped with the product:	Completed
Assorted sizes of drywall “toggle” bolts (1/4”x ?, 3/8”x?, and 1/2”x?)	<input type="checkbox"/>
Floor anchors (Hilti™ HSL or equivalent, 3/8” x 2; 1/4” x 2; 3/4” x 5; and 3/4” x4)	<input type="checkbox"/>
Plastic wall anchors	<input type="checkbox"/>
Assorted hardware for termination of electrical connections (solder-less ring lug terminals and butt splices, AWG 2-18)	<input type="checkbox"/>
Tie wraps, electrical tape and wire markers	<input type="checkbox"/>
Tags for labelling incomplete work in accordance to OSHA and regulatory requirements	<input type="checkbox"/>
Tag and lock-out equipment	<input type="checkbox"/>
Assorted 12-point sockets (SAE and metric), drives, wrenches and torque wrench (Nm and ft.-lbs)	<input type="checkbox"/>
Electric and hammer drill. Assorted masonry and high-speed bits in both metric and SAE sizes	<input type="checkbox"/>
Assorted sizes of tongue and groove pliers, hammers, hex wrenches (metric and SAE), screw drivers and metal files	<input type="checkbox"/>
Assorted sizes of wire cutters and strippers, ratchet and standard crimpers (42,400 mm ² and upwards), and a 75 watt soldering iron	<input type="checkbox"/>
Heat and electrical tape	<input type="checkbox"/>
Chalk line, plumb bob and assorted alignment tools (including squares, torpedo and 6-foot levels)	<input type="checkbox"/>
Movers dollies, ladders, shop vacuum and push-broom	<input type="checkbox"/>
Hacksaw and Sawzall™	<input type="checkbox"/>
(2) 5164598, OTS lifting tool (one set to be distributed to each district by headquarters)	<input type="checkbox"/>
(2) 1.8 m Step ladders	<input type="checkbox"/>
(2) Cabinet dolly	<input type="checkbox"/>
(2) Steel measuring tapes, 3.5 m and 15 m	<input type="checkbox"/>
(1) #46-316872G1, Water Level kit [(ELECTRA/LEVEL by Zircon International) or equivalent capable of +/- 3.2 mm over 9.14 m] with 9.14 m of 9.5 mm I.D. Plastic tubing (#46-136324P10).	<input type="checkbox"/>
(1) Water Level Meter, 300 mm	<input type="checkbox"/>
(1) Carpenter's level, 61 cm long	<input type="checkbox"/>
Movers dollies, ladders, shop vacuum and push-broom	<input type="checkbox"/>

Section 3.0

Preparing the Delivery Route

1.) Step One – Sketch out the Route

Begin preparing Route Survey by sketching the area of the hospital or clinic which will receive the equipment. Include all areas on the delivery route from outside of building to destination. See sample sketch below.

Reference Numbers

Numbers in circles refer to the Route Survey data. The Route Survey is a form on which site data is listed (step 2).

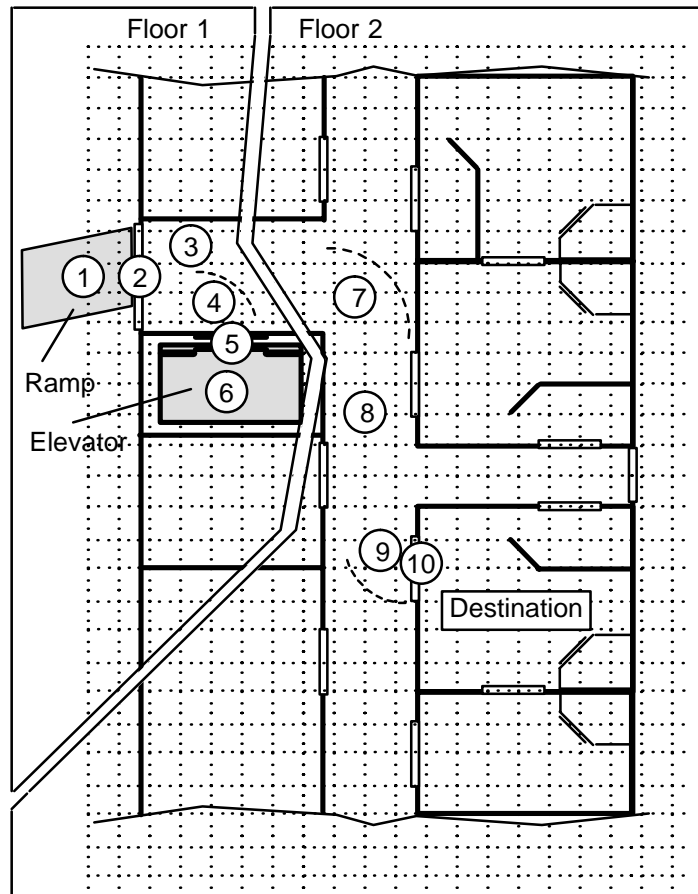


Figure 7-1 Sample Route

2.) Step Two – Survey the Route

Record all loading capacities, corridor widths, door openings, turning radii, flooring materials, elevator sizes, obstructions and so on for reference.

3.) Step Three – Check the Route

Verify equipment can actually be transported via the route determined in step 1.

Section 4.0

Networkflow Audit

Networkflow (net' wurk' flo) *n* 1. The study of how to integrate diagnostic imaging devices into both your facility's network *and* workflow. -*v* 2. The act of integrating a digital diagnostic device most effectively for your particular situation. 3. Leveraging your network equipment and workflow investment for peak efficiency.

Understanding how your facility leverages its network investment through our *Networkflow* process will help us better integrate the Definium™ 6000 system into your operations. The following is intended to identify the various ways the Definium™ 6000 system can fit into your workflow and the ramifications of selecting one path or another. We would like to start at the beginning, with the patient arriving at your facility, going through registration/admittance/patient scheduling and proceed all the way to the read images being archived.

4.1 What is the *Networkflow* Audit?

This audit was designed to collect information on your network, your DICOM equipment, your workflow and your dataflow. Once this information is collected, it will be used to determine the best way the Definium™ 6000 system can fit into your facility. The information will also be used to ease and speed the integration of the system into your facility.

This audit is intended to be performed before the system is quoted to you. The audit process will uncover aspects of your network and workflow that will impact how well the Definium™ 6000 system will integrate into your facility. With all facts uncovered, GE can prepare a more accurate quote and minimize "surprises" at the time of install.

You should fill this out with the GE Healthcare representative. They will be able to answer any questions you may have.

4.2 Facility Information

Name of facility:

Room #:

Workflow contact:

Phone:

Network Infrastructure contact:

Phone:

DICOM Device contact:

Phone:

Other contact:

Phone:

GEHC Sales Representative:

GEHC Auditor:

4.3 Workflow Analysis

When the patient arrives in the Definium™ 6000 system room for the exam, how is the patient data entered into the system?

☐ Manually typed☐ Entered via barcode reader☐ Downloaded from HIS/RIS

Barcode format: _____

If the patient information was downloaded from a HIS/RIS system, how would the query be structured? *(Pick all that apply)*

☐ By date☐ By modality☐ By patient information☐ By procedure☐ By product (AE Title)☐ Other method - Please explain: _____

In retrieving patient schedule information, do you query

☐ Once at the start of the shift☐ Several times during a shift☐ Before each patient

What percent of images acquired are reviewed via softcopy? _____%

What percent of images acquired are printed? _____%

Once the digital diagnostic images are acquired, what is your facility's default workflow?

(Pick one)

☐ Manually send☐ Automatically push

(Pick all that apply)

- ☐ Review station(s) ☐ Archive system(s) ☐ Printer(s)

When images are configured for automatic push, what would you like to be sent to PACS/archive/review stations?

- ☐ Raw ☐ Processed ☐ Raw and Processed

When images are printed, on what device is the print command originated? *(Pick all that apply)*

- ☐ The Definium™ 6000 system ☐ A review workstation ☐ A PACS system

How soon after the images are acquired is the first image quality check done?

- ☐ Before the next image is shot ☐ Before the patient leaves ☐ After patient leaves

When it comes to image quality, would you prefer to;

- ☐ Consider all images good unless marked bad
☐ Consider all images bad unless marked good

4.4 The Physical Network

Physical infrastructures vary widely from institution to institution. GE Healthcare tried to pick the most popular networking connection to ease integration into your facility's network.

In the Definium™ 6000 system room, this facility;

- ☐ Has 100baseT installed ☐ Has 10baseT installed ☐ Has a different network installed
☐ Will have 100baseT installed ☐ Will have 10baseT installed ☐ We don't have a network installed

Is the network open to GE?

- ☐ Yes ☐ No

Do you segment your network using subnets?

- ☐ Yes ☐ No

Our equipment's IP addresses are:

- ☐ Static ☐ Acquired via DHCP ☐ A combination of both methods

4.5 Definium™ 6000 System Parameters

Definium 6000 System	
Host Name:	
Network (IP) Address:	____ . ____ . ____ . ____
Subnet Mask:	____ . ____ . ____ . ____
Router IP:	____ . ____ . ____ . ____
Scheduled Station AE Title:	

The **Host Name** is the network's name for the Definium™ 6000 system.

IP addresses uniquely identify a device on a network. IP addresses are constructed of 32 bits, usually displayed as four numbers separated by a period. Please indicate the **Network (IP) Address** that will be assigned to the Definium™ 6000 system.

Subnets are a method of logically dividing a network into smaller blocks. This is usually done based upon locality, functionality or security requirements. If your facility will place the Definium™ 6000 system on a subnet, please list the **Subnet Mask** and **Router IP**.

The **Scheduled Station AE (Application Entity) Title** is the name your HIS/RIS system will use to send worklist information to the Definium™ 6000 system.

4.6 Devices & Services Audit

Use the following narrative to complete the form on the previous page.

REMOTE HOSTS: Remote hosts are DICOM devices to which the Definium™ 6000 system can push an image. Remote hosts can be review workstations, archival devices, or PACS systems. Please indicate the type of remote host.

Now indicate the manufacturer and model name or number.

Compatibility can vary with software versions, please indicate the version of device firmware/software the device will be running.

List the device's **IP address**.

The answers to the next several items can be found in the device's DCS (DICOM Conformance Statement).

Please indicate the highest level of **DICOM conformance** for this device. If the device is not DICOM compliant, please indicate so and move on to the next device.

If the device does have some level of DICOM conformance please return a copy of the DICOM Conformance Statement with this completed form.

DICOM supports a number of **image types**. Please indicate if this device supports the DX and/or the CR image types.

The **host name** is the name that will appear on the screen and users will use to indicate this device. Please list the host name.

The next four sections address the four services that remote host devices may offer. Each of the services will have its own AE (application entity) title and port number. The AE title is the name given to a service or application provided by a DICOM device. The port number is a logical designation within the device. These pieces of information are available in the device's DCS.

Being a **remote host server** allows the Definium™ 6000 system to push images to other devices. If you want the device to accept this service, check yes and provide the AE title and port number.

Being a **query/retrieve** service class provider allows the Definium™ 6000 system to query this device and retrieve images stored there. If you want this device to provide these services to the Definium™ 6000 system check yes and fill in the requested items.

The **query/retrieve by** study or patient controls how much the user is able to retrieve at one time. For study, the user may retrieve studies, series, images. For patient, the user may retrieve all of the study attributes plus a patient's entire image collection.

A **storage commitment** provider confirms that images sent by the Definium™ 6000 system to an archival system were received and stored. Note - This option is only available when the Definium™ 6000 system is sending DX type images. If your device supports both DX image types and storage commitment check yes and provide the AE title, the port number and the network (IP) address.

The **MPPS server** receives the messages sent by the Definium™ 6000 system. These messages consist of information such as when the exam started and closed, how many images were acquired, dose information, etc. This information is then updated on the Hospital Scheduling system. If the site has an MPPS server, provide the AE Title , IP address and port number.

Printers		Include a DICOM Compliance Statement for each printer
Manufacturer/Model:		
Software/Firmware Version:		
Prints via Spooler:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Network (IP) Address:	____ . ____ . ____ . ____	____ . ____ . ____ . ____
DICOM Compliance Level:	<input type="checkbox"/> 1.0 <input type="checkbox"/> 2.0 <input type="checkbox"/> 3.0 <input type="checkbox"/> Not DICOM Compliant	<input type="checkbox"/> 1.0 <input type="checkbox"/> 2.0 <input type="checkbox"/> 3.0 <input type="checkbox"/> Not DICOM Compliant
Host Name:		
Printer AE Title:		
Port Number:		

Printers: As with the remote hosts, please list the manufacturer and the model name/number. The software/firmware version should also be entered. Next, supply the IP address of the printer.

Indicate the DICOM compliance level of the printer. If it is not DICOM compatible, please indicate so.

DICOM compatibility does not guarantee all functions will work properly. **Include every unique printer's DICOM Compliance Statement.**

Supply the Host name for the printer.

Look in the DCS for the printer's AE title and port number.

RIS Systems		Include a DICOM Compliance Statement for each device
Manufacturer/Model:		
Software/Firmware Version:		
Network (IP) Address:	____ . ____ . ____ . ____	____ . ____ . ____ . ____
DICOM Compliance Level:	<input type="checkbox"/> 1.0 <input type="checkbox"/> 2.0 <input type="checkbox"/> 3.0 <input type="checkbox"/> Not DICOM Compliant	<input type="checkbox"/> 1.0 <input type="checkbox"/> 2.0 <input type="checkbox"/> 3.0 <input type="checkbox"/> Not DICOM Compliant
Host Name:		
HIS/RIS AE Title:		
Port Number:		
Modality used for Scheduling:	<input type="checkbox"/> DX <input type="checkbox"/> CR	<input type="checkbox"/> DX <input type="checkbox"/> CR

RIS Systems: As with the remote hosts please list the manufacturer and the model name/number. The software/firmware version should also be entered.

Indicate the IP address the device is using as well as the DICOM compliance level. **Please include the DCS for the RIS with this completed form.**

Fill in the Host name.

Look in the DCS for the AE title and port number.

Please indicate if this device supports the DX and/or the CR image types. This information should also be in the device's DCS.

4.7 Dataflow Analysis

Now that we have outlined the way your facility works and the devices you work with, we would like to define how the images flow through your network.

The Definium™ 6000 system is an acquisition-only device. Because of that fact you will need to move acquired images off the Definium™ 6000 system and into your work/data flow. Please use the chart below to describe your data flow. As an example, if your facility reviewed images as the first step after acquisition, the review box would be checked in the first column of the **Task** row and the review workstation would be checked in the first column of the **Device** row. You should use each of the functions once.

	1st step after acquisition	2nd step after acquisition	3rd step after acquisition
Task	<input type="checkbox"/> Archive <input type="checkbox"/> Print <input type="checkbox"/> Review	<input type="checkbox"/> Archive <input type="checkbox"/> Print <input type="checkbox"/> Review	<input type="checkbox"/> Archive <input type="checkbox"/> Print <input type="checkbox"/> Review
Device	<input type="checkbox"/> Archive device <input type="checkbox"/> PACS <input type="checkbox"/> Printer <input type="checkbox"/> Review Workstation <input type="checkbox"/> Spooler ➡ Printer(s) <input type="checkbox"/> Spooler ➡ Review Workstation(s)	<input type="checkbox"/> Archive device <input type="checkbox"/> PACS <input type="checkbox"/> Printer <input type="checkbox"/> Review Workstation <input type="checkbox"/> Spooler ➡ Printer(s) <input type="checkbox"/> Spooler ➡ Review Workstation(s)	<input type="checkbox"/> Archive device <input type="checkbox"/> PACS <input type="checkbox"/> Printer <input type="checkbox"/> Review Workstation <input type="checkbox"/> Spooler ➡ Printer(s) <input type="checkbox"/> Spooler ➡ Review Workstation(s)

Printing: It is important to us to understand the path your images follow before they are printed. We are now looking to answer the question of what road an image most typically travels on its way to be printed regardless if that is the first step in your process or not. Please try to find in the list below the path that best describes the path the image takes from acquisition to printing.

- ☐ Definium™ 6000 System ➡ Printer
- ☐ Definium™ 6000 System ➡ Spooler ➡ Printer(s)
- ☐ Definium™ 6000 System ➡ Archive Device ➡ Printer
- ☐ Definium™ 6000 System ➡ Archive Device ➡ Spooler ➡ Printer(s)
- ☐ Definium™ 6000 System ➡ Archive Device ➡ Review Workstation ➡ Printer
- ☐ Definium™ 6000 System ➡ Archive Device ➡ Review Workstation ➡ Spooler ➡ Printer
- ☐ Definium™ 6000 System ➡ PACS ➡ Printer
- ☐ Definium™ 6000 System ➡ PACS ➡ Spooler ➡ Printer
- ☐ Definium™ 6000 System ➡ Review Workstation ➡ Printer
- ☐ Definium™ 6000 System ➡ Review Workstation ➡ Spooler ➡ Printer(s)
- ☐ Definium™ 6000 System Other: _____ ➡ Printer(s)

Image Review: Now let's trace the path from acquisition to image review. Again, pick the item below that best describes how the image flows from the Definium™ 6000 system to the radiologist.

- ☐ Definium™ 6000 System ➡ Printer ➡ Printed Film ➡ Radiologist
- ☐ Definium™ 6000 System ➡ Review Workstation ➡ Radiologist
- ☐ Definium™ 6000 System ➡ Archive Device ➡ Review Workstation ➡ Radiologist
- ☐ Definium™ 6000 System ➡ PACS ➡ Radiologist
- ☐ Definium™ 6000 System ➡ PACS ➡ Review Workstation ➡ Radiologist
- ☐ Definium™ 6000 System ➡ Other: _____ ➡ Radiologist

Archive: The final part of this triad is archiving images. Pick the item below that best describes the flow of images to be archived.

- ☐ Definium™ 6000 System ➡ Archive Device
- ☐ Definium™ 6000 System ➡ PACS
- ☐ Definium™ 6000 System ➡ Printer ➡ Printed Film ➡ Filing System
- ☐ Definium™ 6000 System ➡ Review Workstation ➡ Archive Device
- ☐ Definium™ 6000 System ➡ Review Workstation ➡ PACS
- ☐ Definium™ 6000 System ➡ Other: _____ ➡
Archive Device

4.8 What Will Happen Next?

Next, your completed audit sheet will be analyzed by your GE Healthcare representative and any issues identified.

Section 5.0

Pre-Installation Checklist

Delivery Date: _____ Sales Person: _____
 Customer: _____ FDO No.: _____ Room # _____
 Equipment: _____

Physical Requirements of Site

Completed

- 1.) Room size adequate for intended equipment configuration? ☐
- 2.) Floor and ceiling is strong enough for intended equipment and mounting methods approved – seismic regulatory codes considered? ☐
- 3.) Delivery route accommodates all intended equipment? ☐
- 4.) Radiation physicist consulted? ☐
- 5.) Necessary alterations made to circumvent obstructions? ☐
- 6.) Modifications to room finished? ☐
- 7.) Supports, platforms, suspensions, ceiling materials been provided? ☐
- 8.) Support structures installed for floor, ceiling, and wall mounted equipment? ☐
- 9.) Ceiling supports leveled? ☐
- 10.) Has floor been modified for cable ducts? ☐
- 11.) If drop-in ceiling is not used, is access panel provided (3 x 2 ft. minimum)? ☐
- 12.) Electrical service in place - at the ratings specified in pre-installation documentation? ☐
- 13.) Power available to operate power tools? ☐
- 14.) All non-electrical lines (air, water, oxygen, vacuum) installed? ☐

Interconnections

Completed

- 1.) Signal cable, power and grounding plans produced? ☐
- 2.) Necessary interconnection hardware, such as junction boxes, conduit or raceways, and fittings provided? ☐
- 3.) Interconnection hardware installed? ☐
- 4.) Flexible, stranded wire provided for System input power connection? ☐
- 5.) System “feeder” power cables pulled and sufficient length available at disconnect box for connections? ☐
- 6.) Interconnecting cables continuity checked, and labeled? ☐

Interconnections

Completed

- 7.) All high voltage cable lengths verified? ☐
- 8.) Interface information available for equipment? ☐

General

Completed

- 1.) Ceiling, walls, and floor clear of all obstructions? ☐
- 2.) Walls finished? ☐
- 3.) Finished floor installed? ☐
- 4.) Room lights installed? ☐
- 5.) Dust-creating work completed? ☐
- 6.) Old equipment within room removed? ☐
- 7.) Component positions clearly marked on floor? ☐
- 8.) Space available to store equipment? ☐
- 9.) Lock on door, or locked room available? ☐
- 10.) Room IP Addresses for DICOM and Broadband identified? ☐
- 11.) Broadband connection provided for InSite connection?
OR
If Broadband connection will not be used, is dedicated inbound "dialup"
phone line provided for InSite connection? ☐
- 12.) Have all fire/safety inspections for occupancy been completed? ☐

Comments:

Inspection Date(s):

Chapter 8 - System Cable Information

Section 1.0

Introduction

The following information is provided as an aid to make the physical installation of system cables easy and efficient. In the tables that follow, the physical characteristics of each cable and its associated connectors is provided. Thus making it easier to plan cable paths and clearances in advance. Physical characteristics are given for each available cable length. Review cable lengths carefully and choose lengths appropriate for your installation prior to the equipment arriving, to avoid unnecessary installation delays.

Remember, it is up to you to make sure that all cables are routed and connected in accordance with all regulatory laws that may apply.

Section 2.0 Cable Information

2.1 Cable Lengths and Characteristics

Run Number	MIS Number	Description	Short Cables (Standard)			Voltage Rating (V)
			Part Number	Total Length (M)	Usable Length (M)	
1 - System Cabinet to Wallstand	11644A	Wallstand CAN and CANopen	5146500-1	20	18.5	12
	11756A	Wallstand Power	5146500-2	20	18.5	120
	11755A	Wallstand DPS Power	5146500-3	20	18.5	120
	11759A	Wallstand Ion Chamber	5146500-4	20	18.5	15
	11757A	Wallstand Ground	5146500-5	20	18.5	0
2 - System Cabinet to OTS	11629A	OTS CAN and CANopen	5146500-7	20	17.9	12
	11711A	OTS Ground	5146500-8	20	17.9	0
	11710A	OTS Tube stator, Fan&Pressure Switch	5146500-9	25	19.1	250, 115
	11691A	OTS Tube Anode	5160469-1	25	11.5	75000
	11690A	OTS Tube Cathode	5160469-2	25	11.5	75000
	11708A	OTS Power	5146500-12	20	17.79	120
3 - System Cabinet to Console Wallbox	11760A	WBI Jedi CAN	5146500-15	20	18.5	12
	11761A	WBI CAN	5146500-16	20	18.5	12
	11763A	WBI (CRE) Power	5146500-17	20	18.5	120
	11764A	WBI Ground	5146500-18	20	18.5	0
	11762A	RCIM to Cabinet	5146500-25	20	18.5	24
4 - System Cabinet to Magic PC	11776A	Magic PC Ground	5146500-24	18	16.5	0
5 - Wallstand to Magic PC	20100A	GbE cable for detector	5146500-6	50	50	
6- Wallstand to System Cabinet	020021	FeiTian WS ION Chamber Cable	5146500-30	20	18.5	AC350 OR DC500V
7 - OTS to Magic PC	20101A	OTS Console Touchscreen	5146500-13	26	23.8	12
	20102A	OTS Console VGA	5146500-14	30	23.45	12

Table 8-1 Cable Lengths and Characteristics

Run Number	MIS Number	Description	Short Cables (Standard)			Voltage Rating (V)
			Part Number	Total Length (M)	Usable Length (M)	
8 - Wallbox to Magic PC	11767A	Magic PC Jedi CAN	5146500-19	3	3	12
	11768A	Magic PC System CANopen	5146500-20	3	3	12
	11770A	Magic PC Power	5146500-21	3	3	120
9 - Wallbox to Magic Monitor	11774A	Image Monitor	5146500-22	3	3	120
10 - Wallbox to RCIM	11769A	RCIM	5146500-23	3	3	24
11- Digital Table to Magic PC	020003	FeiTian GbE Cable for Detector - TBL	5146500-26	49.5	49.5	AC350 OR DC500V
12 Digital Table to System Cabinet	020005	FeiTian TBL Power Cable	5146500-27	20	18.5	AC350 OR DC500V
	11753A	FeiTian TBL DPS Power Cable	5146500-28	20	18.5	AC350 OR DC500V
	11632A	FeiTian TBL CAN and CANopen Cable	5146500-29	20	18.5	AC350 OR DC500V
	11750A	FeiTian TBL ION Chamber Cable	5146500-31	20	18.5	AC350 OR DC500V
		FeiTian TBL Ground Cable	5146500-32	20	18.5	AC350 OR DC500V
	11754A	FeiTian TBL emergency Cable	5146500-33	20	18.5	AC350 OR DC500V

Table 8-1 Cable Lengths and Characteristics

2.2 Cable Terminations (End A)

Run Number	MIS Number	Cable End A Subsystem (Color)	Cable Connector End A Type	Cable End A Termination	Cable Connector Dimensions						
					Width (mm)	Width (in)	Height (mm)	Height (in)	Dia. (mm)	Dia. (in)	Area (sq. in)
1 - System Cabinet to Wallstand	11644A	System Cabinet (orange)	9 Pin Sub-D (M)	SKL A25 J206	33.4	1.31	15.5	0.6078	12,8	0.5	0.19786
	11756A		3 Pin Mate'n Lok	SKL A25 J1	28.61	1.12	14.79	0.58	8.06	0.31	0.075
	11755A		3 Pin Mate 'n Lok	SKL A25 J2	28.61	1.12	14.79	0.58	8.06	0.31	0.075
	11759A		9 Pin Sub-D (F)	SKL A25 J14	33.4	1.31	15.5	0.6078	12,8	0.5	0.19786
	11757A		1/4" Ring Terminal	SKL	12	0.471	1.2	0.0471	6.8	0.27	0.05584
2 - System Cabinet to OTS	11629A	System Cabinet (orange)	9 Pin Sub-D (M)	SKL A25 J41	33.4	1.31	15.5	0.6078	12.8	0.5	0.19786
	11711A		#10 RING TERMINAL	SKL GND	12	0.471	1.2	0.0471	6.8	0.27	0.05584
	11710A		12 Pin (Matrix) Mate'n Lok	SKL A25 J42	26.67	1.046	27.43	1.0757	20.4	0.8	0.50256
	11691A		HV "Candle Stick"	SKL HV Transformer Anode	-	-	-	-	-	-	-
	11690A		HV "Candle Stick"	SKL HV Transformer Cathode	-	-	-	-	-	-	-
	11708A		3 Pin Mate'n Lok	SKL A25 J108	28.61	1.12	14.79	0.58	8.06	0.31	0.075
3 - System Cabinet to Wallbox	11760A	System Cabinet (orange)	9 Pin Sub-D (M)	SKL A25 J108	33.4	1.31	15.5	0.6078	12,8	0.5	0.19786
	11761A		9 Pin Sub-D (F)	SKL A25 J107	33.4	1.31	15.5	0.6078	12,8	0.5	0.19786
	11763A		WIRE	SKL A25 J6	-	-	-	-	-	-	-
	11764A		1/4" INSULATED RING TERMINAL	SKL	13.52	0.53	1.2	0.0471	6.8	0.27	0.05584
	11762A		50 Pin Sub-D (M)	SKL A25 J109	70.76	2.775	18.62	0.73	9.14	0.36	0.10088

Table 8-2 Cable Terminations (End A)

Run Number	MIS Number	Cable End A Subsystem (Color)	Cable Connector End A Type	Cable End A Termination	Cable Connector Dimensions						
					Width (mm)	Width (in)	Height (mm)	Height (in)	Dia. (mm)	Dia. (in)	Area (sq. in)
4 - System Cabinet to Magic PC	11776A	System Cabinet (orange)	1/4" RING TERMINAL	SKL GND	12	0.471	1.2	0.0471	6.8	0.27	0.05584
5 - Wallstand to Magic PC	20100A	Magic PC (yellow)	SCSI Connector	Magic PC	11.68	0.458	7.26	0.2847	6.1	0.24	0.04494
6. Wallstand to cabinet	020021	Wallstand (Orange)	DB 15Pin (M)	SYSTEMS CABINET A25 J14	30.81	1.208	12.55	0.4922	8	0.31	0.06435
7 - OTS to Magic PC	20101A	Magic PC (yellow)	9 Pin Sub-D (F)	Magic RS232	33.4	1.31	15.5	0.6078	7.3	0.29	0.06435
	20102A		15 Pin HD Sub-D (M)	Magic VGA	30.81	1.208	12.55	0.4922	8	0.31	0.07729
8 - Wallbox to Magic PC	11767A	Wallbox (N/A)	9 Pin Sub-D (M)	WBI JEDI CAN	33.4	1.31	15.5	0.6078	12.8	0.5	0.19786
	11768A		9 Pin Sub-D (M)	WBI CAN	33.4	1.31	15.5	0.6078	12.8	0.5	0.19786
	11770A		IEC 320	WBI POWER	23	0.902	15	0.5882	8.8	0.35	0.09352
9-- Wallbox to Image Monitor	11774A	Wallbox (N/A)	IEC 320	WBI	23	0.902	15	0.5882	8.8	0.35	0.09352
10- Wallbox to RCIM	11769A	Wallbox (N/A)	SCSI Connector	WBI RCIM	70.76	2.775	18.62	0.73	9.14	0.36	0.10088
11- Digital Table to Magic PC	020003	Digital Table (Yellow)	Phone connector CAT-5 8P8C screening jack and wire groove	Magic PC	12	0.471	1.2	0.0471	6.8	0.27	0.05584
12 Digital Table to System Cabinet	020005	Digital Table (Brown)	PLUG HSG	System Cabinet A25 J3	27.4	1.07	14	0.55	13.5	0.53	0.22062

Table 8-2 Cable Terminations (End A)

Run Number	MIS Number	Cable End A Subsystem (Color)		Cable Connector End A Type	Cable End A Termination	Cable Connector Dimensions						
						Width (mm)	Width (in)	Height (mm)	Height (in)	Dia. (mm)	Dia. (in)	Area (sq. in)
	11753A	System	Cabinet (Brown)	IEC320	Table A1	23	0.902	15	0.588 2	8.8	0.35	0.0935 2
	11632A	System	Cabinet (Brown)	9 Pin Sub-D (M)	Table J5	33.4	1.31	15.5	0.607 8	12.8	0.5	0.1978 6
	11750A	Digital	Table (Orange)	9 Pin Sub-D (F)	System Cabinet A25 J81	33.4	1.31	15.5	0.607 8	7.3	0.29	0.0643 5
		System	Cabinet (Brown)	R8-6 8AWG round terminal	Table A1							
	11754A	System	Cabinet (Brown)	9 Pin Sub-D (F)	TBL A1 J6	33.4	1.31	15.5	0.607 8	7.3	0.29	0.0643 5

Table 8-2 Cable Terminations (End A)

2.3 Cable Terminations (End B)

1 - System Cabinet (orange) to Wallstand	11644A	Wallstand (blue)	9 Pin Sub-D (F)	WS J2	33.4	1.31	15.5	0.608	12.8	0.502	0.198
	11756A		IEC 320	WS J4	28.7	1.125	21	0.824	8.8	0.3451	0.094
	11755A		IEC 320	WS A5	28.7	1.125	21	0.824	8.8	0.3451	0.094
	11759A		9 Pin Sub-D (M)	WS J1	39.14	1.535	12.5	0.49	8.2	0.3216	0.081
	11757A		1/4" RING TERMINAL	WS	12	0.471	1.2	0.047	6.8	0.2667	0.056
2 - System Cabinet (orange) to OTS	11629A	OTS (black)	9 Pin Sub-D (F)	OTS ALB Box L5	33.4	1.31	15.5	0.608	12.8	0.502	0.198
	11711A		1/4" RING TERMINAL	OTS GND	12	0.471	1.2	0.047	6.8	0.2667	0.056
	11710A		Spade&Ring TERMINAL	OTS Tube 1 Stator, Fan&Pressure Switch	-	-	-	-	-	-	-
	11691A		HV 'Candle Stick'	OTS Tube Anode	-	-	-	-	-	-	-
	11690A		HV 'Candle Stick'	OTS Tube Cathode	-	-	-	-	-	-	-
	11708A		3 Pin Mate'n Lok	OTS Power	28.61	1.12	14.79	0.58	8.06	0.31	0.075
3 - System Cabinet (orange) to Wallbox (N/A)	11760A	Wallbox (N/A)	9 Pin Sub-D (F)	WBI JEDI CAN	33.4	1.31	15.5	0.608	12.8	0.502	0.198
	11761A		9 Pin Sub-D (M)	A2 J1	33.4	1.31	15.5	0.608	12.8	0.502	0.198
	11763A		3 Pin Mate'n Lok	A3 J2	28.61	1.12	14.79	0.58	8.06	0.31	0.075
	11764A		#10 INSULATED RING TERMINAL	WBI	13.515	0.53	1.2	0.047	6.8	0.2667	0.056
	11762A		50 Pin Sub-D (F)	WBI RCIM	33	1.294	18.4	0.722	9.14	0.3584	0.101
4 - System Cabinet (orange) to Magic PC (yellow)	11776A	Magic (yellow) PC	#10 RING TERMINAL	MAGIC GND	12	0.471	1.2	0.047	6.8	0.2667	0.056
5 - Wallstand to Magic PC (yellow)	20100A	Wallstand (blue)	SCSI Connector	WS	11.68	0.458	7.26	0.285	6.1	0.2392	0.045
6- Wallstand to cabinet	020021	System Cabinet (Blue)	DB 15Pin (M)	SYSTEMS CABINET A25 J14	30.81	1.208	12.55	0.4922	8	0.31	0.06435

Table 8-3 Cable Terminations (End B)

7 - OTS to Magic PC (yellow)	20101A	OTS (black)	9 Pin Sub-D (M)	OTS RS232 CONN	33.4	1.31	15.5	0.608	7.3	0.2863	0.064
	20102A		15 Pin HD Sub-D (M)	OTS VGA	30.81	1.208	12.55	0.492	8	0.3137	0.077
8 - Wallbox (N/A) to Magic PC (yellow)	11767A	Magic PC (yellow)	9 Pin Sub-D (F)	MAGIC J2	33.4	1.31	15.5	0.608	12.8	0.502	0.198
	11768A		9 Pin Sub-D (F)	MAGIC J1	33.4	1.31	15.5	0.608	12.8	0.502	0.198
	11770A		NEMA 5-15P	MAGIC J3	24.6	0.965	23.8	0.933	15.5	0.6078	0.29
9 - Wallbox (N/A) to Image Monitor	11774A	Image Monitor (N/A)	NEMA 5-15P	MON1	24.6	0.965	23.8	0.933	15.5	0.6078	0.29
10 - Wallbox (N/A) to RCIM	11769A	RCIM (yellow)	50 Pin Sub-D (M)	RCIM	49.91	1.965	12.19	0.48	9.14	0.3584	0.101
11- Digital Table to Magic PC	020003	Magic PC (Brown)	Phone connector CAT-5 8P8C screening jack and wire groove	Magic PC	12	0.471	1.2	0.0471	6.8	0.27	0.05584
12 Digital Table to Cabinet	020005	System Cabinet (Orange)	PLUG HSG	System Cabinet A25 J3	27.4	1.07	14	0.55	13.5	0.53	0.22062
	11753A	Digital Table (Orange)	HSG 3P	Table A1	27.4	1.07	14	0.55	7.6	0.3	0.07069
	11632A	Digital Table (Orange)	9 Pin Sub-D (M)	Table J5	33.4	1.31	15.5	0.6078	12.8	0.5	0.19786
	11750A	System Cabinet (Brown)	9 Pin Sub-D (F)	System Cabinet A25 J81	33.4	1.31	15.5	0.6078	7.3	0.29	0.06435
	11754A	Digital Table (Orange)	R8-6 8AWG round terminal	Table A1	33.4	1.31	15.5	0.6078	7.3	0.29	0.06435

Table 8-3 Cable Terminations (End B)

Section 6.0 Master Interconnect Schematic (MIS)

System

GE Healthcare
Direction 5343941-8-EN, Revision 5

Definium™ 6000 Pre-Installation

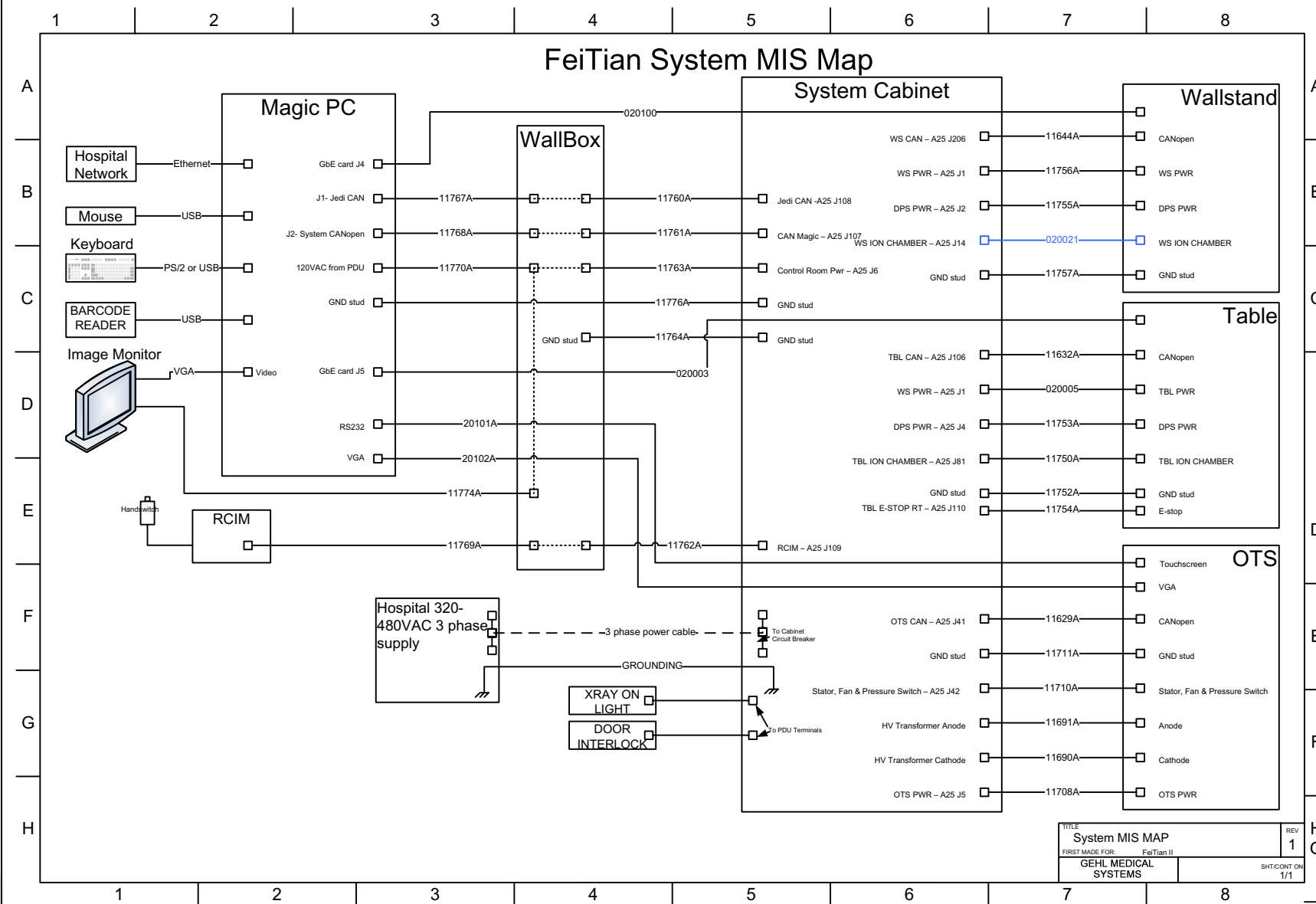


Figure 7-2 System MIS Map

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GE HEALTHCARE

***NO.1, YONGCHANG NORTH ROAD
ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE
FAX: 86-10-67881850
TELE: 86-10-58068888
BEIJING, P. R. CHINA 100176***