Mobile Imaging and Diagnostic Units

An increasing number of hospitals and group purchasing organizations have been contracting for mobile services that bring diagnostic equipment to hospitals, allowing them to outsource the procedures and avoid large capital investments.

With Johnson Medical Mobile Imaging and Diagnostic Solutions hospitals that do not have the patient demand to justify the investment in expensive, high-technology equipment—such as lithotripters, magnetic resonance imaging (MRI) systems, and cardiac catheterization laboratory equipment—necessary to provide a full range of services to the patients, can create “joint ventures” and share the capital investment in, and the use of sophisticated imaging and diagnostic solutions.

Joint ventures in mobile healthcare equipment help organizations cope with the increasing costs of technology, insufficient density of population in an area and the need for high quality medical care.

Our mobile and diagnostic imaging equipment is easily and safely transferable from one hospital to another in a specially designed trailer.

In 1998 one of the largest public hospitals in Malaysia had an immediate need for a mobile surgical unit to enable its main operating theaters at the accident and emergency department to undergo much needed renovations. Johnson Medical had developed the requested mobile surgical unit and installed it on the hospital grounds in under 6 months. The unit was subsequently used by the hospital’s Emergency Services Department to temporarily host an additional operating theatre requested by the Malaysian government in advance of the Commonwealth Games in 1998.

The unit, the first of its kind in the world at the time, boasted a temporary surgical theatre providing a unique combination of high performance and durability. It is capable of performing very complex operations and meets all safety standards as to be able to host very complicated surgeries.

Mobile surgical units can be manufactured using almost exclusively local resources. They consist of three separate 80-sq-feet containers housing the main OT, induction and disinfection rooms and a store for sterile goods that are docked together using a specially designed docking channel to ensure a secure fit.

Container-based medical services can be configured in a number of configurations, from a week-round operating room, etc.

Mobile Imaging Equipment

The increasing demand for digitization among hospitals and outreach facilities coupled with the high price of imaging equipment has sparked the growth of the mobile medical imaging industry. There is a great demand for mobile equipment for emergency services and outreach hospitals.

Mobile equipment is operating par excellence in the field of computed tomography (CT), magnetic resonance imaging (MRI) and positron emission tomography (PET). A trend of deploying mobile imaging equipment, which is transportable from one hospital to another in a specially designed trailer, is also on the upswing.

Mobile Diagnostic Equipment

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Mobile, Modular & Expandable Healthcare Solutions

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Container-based medical services can be configured in a number of configurations, from a week-round operating room, etc.

A leading private hospital in Kota Kinabalu, Malaysia was operating well above its capacity of 700 beds. The OT department consisted of only 4 OTs and was at a deficit. The entire department was overcrowded and in need of 14 new operating theaters when completed but it could not be ready for 3-4 years.

Johnson Medical offered a container based OT approach to be utilized while the hospital was renovating its existing OTs and prior to relocating to the new building. Three new container-based operating theaters were successfully docked to the main building OT department on the second floor, in 6 months. This allowed for immediate decanting to ensure the existing OTs could undergo phased renovation without disturbing the medical services or interfering with the traffic flow around the hospital. Subsequently, the Johnson Medical mobile OT provided additional capacity to the main OT department.

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**Mobile Healthcare Solutions**

Johnson Medical unveiled its mobile surgical unit in 1998. It was the first of its kind in the world at the time. It was promptly installed in one of the largest public hospitals in East Timor.

Today, Johnson Medical offers a whole range of mobile, modular and expandable healthcare solutions that include:

- Off-Site Engineering Solutions
- Modular and Expandable Healthcare Units
- Mobile Healthcare Units
- Mobile Imaging and Diagnostic Solutions

**What the Press Said:**

- "Mobile Operating Theater Unveiled - Units Can be set up in disaster areas" - Hospital Product Asia, January 1999
- "Surgery Goes Mobile" - The Sun, November 1998
- "Mobile Surgical Unit Makes its Debut" - New Sabah Times, November 2000
- "Mobile OT Cabin" - RESUSCITATION STAFF (FEMALE) TREATMENT GENERAL RADILOGY STAFF (MALE) THEATER ICU WARD

**Off-Site Engineering Solutions**

The traditional approach to constructing a new hospital or a permanent hospital extension is to erect a complete building from a concrete building, a steel frame construction or a precast concrete building. It usually takes 5 to 6 years to complete such a project, which is long by the standards of today. Johnson Medical’s Off-Site Engineering Solutions offer a unique combination of high performance, durability and cost-effectiveness.

Modern healthcare facilities are often located in constricted spaces, which makes conventional construction techniques impractical. Johnson Medical’s Off-Site Engineering Solutions offer a unique combination of high performance, durability and cost-effectiveness. These solutions are fully pre-assembled and can be delivered on site, allowing for a faster and more efficient construction process.

**Modular and Expandable Healthcare Units**

Johnson Medical Modular and Expandable Healthcare solutions offer a unique combination of high performance, durability and cost-effectiveness. These solutions are fully pre-assembled and can be delivered on site, allowing for a faster and more efficient construction process.

**Mobile Field Hospital**

When medical facilities embark on renovation or expansion projects, the usual challenges involved in the design and construction are further aggravated by the risks associated with the existing building condition, the logistics of construction in a tight space, and continued occupancy of the facility’s patient flow system while complying with required architectural layouts.

**Benefits**

- Full configuration and layout fully customized to maximize usable space and to cater to the facility’s patient flow system and existing architecture.
- Complete take-off list of all modules and installation under the supervision of the mobile hospitals, ensuring all modules are well aligned and functional.
- Exceptional mobility for easy and rapid transportation to remote locations and across continents.
- High demand for technology advancement and compatibility with existing medical equipment and medical gas suppliers.

**Alternative Solution to Hospital Construction**

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**Benefits of using Johnson Medical Offsite Engineering Solutions instead of permanent hospital construction:**

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**Temporary Healthcare Facilities**

The proposed hospital is a container-based hospital that can be easily transported by trucks, tractor-trailers, trains, ships, planes or helicopters and can be easily assembled at site and dismantled for relocation.

**Solutions**

- **Mobile Dialysis Bus Interior**
  - Side lift for wheelchair entry / exit
  - Storage
  - Foldable jump seat working table
  - 15" LCD screens
  - Entrance staircase

- **Mobile Dialysis Bus Exterior**
  - Plane or ship lifts
  - Wheelchairs
  - Staff Area
  - Staff Area room

**Mobile Healthcare Units**

One of the greatest challenges of developing countries in Asia is delivering basic healthcare services to remote populations, especially in remote locations. Solutions, such as expandable healthcare units, can be built to suit different applications, such as becoming mobile Field Hospitals and Temporary Healthcare Facilities. Both consist of mobile ISO containers that are docked together.

**Why Mobile Healthcare Solutions?**

Mobile healthcare solutions offer a unique combination of high performance, durability and cost-effectiveness. These solutions are fully pre-assembled and can be delivered on site, allowing for a faster and more efficient construction process.

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What the Press Said:

2) Modular and Expandable Healthcare Solutions

Today, Johnson Medical offers a whole range of mobile, modular and expandable healthcare solutions that range of mobile, modular and expandable healthcare solutions that bring care to rural areas.

- “New OTs to ease Queen Elizabeth Hospital’s condition, the logistics of construction in a tight space often. Combined occurred of the building construction during the course of delivery.

In perspective, therefore, that such projects are managed to mitigate costs and free up time.

Off-Site Engineering Solutions

Alternative Solution to Hospital Construction

The facility approach to constructing healthcare facilities is to build a concrete building. This involves several months of planning and design, taking a long as 3 to 5 years to complete design phase. The project management is a very complex task, involving the coordination of more than 10 different subcontractors including electrical, plumbing, plumbing, and HVAC. The project is a very high-stress cost center.

By taking a container or cabin approach with Johnson Medical’s Offsite Engineering services, it is not only possible to reduce the overall cost but the lead time can also be reduced by 30%. The offsite engineering motherboard from Johnson medical can be used to accommodate any basic hospital department from lab and ED to OF service. Several units can be linked together to form a complete department or a complete solution.

Benefits of using Johnson Medical’s Offsite Engineering solutions include:

- Fulfillment of the hospital’s patient flow system and occupancy needs.
- Lower overall construction cost and time, which is important for both the owner and the contractor.
- The environment conditions such as weather, temperatures and humidity level of respective countries.
- The ease and time factors necessary for transportation and re-location.
- The medical requirements aspect, which main contractors usually do not understand well.

The Johnson Medical Mobile Solutions host mobile clinics, dental units and mobile dialysis machines as an example of the many applications of expandable healthcare units. Johnson Medical solutions are already playing an important role in disaster relief.

Temporal Healthcare Facilities

Mobile Field Hospital

The hospital can be viewed as the mobile form of a typical hospital. Mobile hospital units move on wheels, allowing easy transportation. They are ideal for use in disaster relief operations, military applications, and other situations where a temporary healthcare facility is needed.

The Johnson Medical Modular and Expandable Healthcare Units offer a unique combination of high performance, durability and functionality, and portability and expandability. Depending on the customer’s requirements, they can be built to suit all applications, such as becoming vital Field Hospitals and Temporary Healthcare Facilities. Built from modules of ISO containers that are designed together.

Mobile Healthcare Units

One of the greatest challenges of developing countries in Asia is delivering basic healthcare to a large number of people, especially in remote, frontier locations. Significant, of out-pocket healthcare personal, high cost of construction and long periods of project completion have made mobile field hospital units a viable solution for these remote areas.

The Johnson Medical Mobile Solutions host mobile clinics, dental units and mobile dialysis centers to provide a mobile and economical solution to the problem.

Modular and Expandable Healthcare Units

Mobile Field Hospital

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Today, Johnson Medical offers a whole range of mobile, modular and expandable healthcare solutions that include:

1) Offsite-Engineering Solutions
2) Modular and Expandable Healthcare Units
3) Mobile Healthcare Solutions
4) Mobile Imaging and Diagnostic Solutions

Mobile Imaging and Diagnostic Solutions
include:
- A wide range of mobile, modular and expandable healthcare units
- Designed to meet specific needs
- Easily transportable
- Can be set up in disaster areas

Mobile Healthcare Solutions
- Easy facility extension by simply adding additional modules
- Complete pre-fabrication of all modules to reduce installation at site, hence minimizing onsite disruption to operations, staff and patients
- Exceptional mobility for easy and rapid transportation to remote locations and across continents
- Modularity and the ability to operate independently
- Heavy duty durability and interoperability/integration with the existing structure
- Exceptional mobility for easy and rapid transportation to remote locations and across continents

Healthcare Units
- Off-Site Engineering Solutions offer a unique combination of high performance, deployable medical facilities, functional and service excellence. Depending on the customer’s requirements, they can be built to suit all applications, such as becoming modular field hospitals and temporary healthcare facilities. All units comprise of ISO containers that are designed together.

Off-Site Engineering Solutions

Mobile Healthcare Solutions

Modular and Expandable Healthcare Units

Mobile Field Hospital

The priority during the renovation of any healthcare facility is to ensure that disruption to the day-to-day medical services is as minimal as possible.

Benefits of using Johnson Medical Offsite Engineering services instead of a permanent hospital are:

- Full configuration and layout capabilities to maximize optimal use and set to the facility’s patient flow patterns with optimize efficiency and architectural flexibility.
- Complete take-off of all modules and examination of the entire facility’s layout prior to decision making.
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Mobile Healthcare Solutions

The proposed solution is a device conforming to all customers’ needs. Depending on a customer’s preference, the component and equipment can be sourced from locally or internationally.

The Johnson Medical Modular Solutions host mobile clinics, dental units and mobile dialysis centers to provide a mobile and economical solution to the problem.

Our design concept work around the following basic:

- Mobile: The medical unit should be capable of meeting the criteria of a complete hospital without any disruption to the community.
- Mobile: The mobile unit should be capable of operating efficiently in a variety of conditions.
- Customer requirements and expectations: the unit should be designed, modified, field tested and deployed to meet the customer’s expectations.

Mobile Healthcare Solutions

The Modular and Expandable Healthcare Units offer a unique combination of high performance, deployable medical facilities, functional and service excellence. Depending on the customer’s requirements, they can be built to suit all applications, such as becoming modular field hospitals and temporary healthcare facilities. All units comprise of ISO containers that are designed together.

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- Exceptional mobility for easy and rapid transportation to remote locations and across continents.
An increasing number of hospitals and group purchasing organizations have been contracting for mobile services that bring diagnostic imaging equipment to facilities, allowing them to outsource the procedures and avoid large capital investments.

With Johnson Medical’s mobile diagnostic and imaging solutions, hospitals can immediately deploy the latest technology to enhance patient care without the large capital investment. Our mobile diagnostic equipment is designed to be easily and safely transferred from one hospital to another in a specially designed trailer.

In 1998, one of the largest public hospitals in Malaysia needed an additional operating theatre to enable its main operating theatre to undergo much needed renovations. Johnson Medical had developed the requested mobile surgical unit and installed it on the hospital grounds in under 6 months. The unit was subsequently used to temporarily host an additional operating theatre requested by the Malaysian government as a measure of extra vigilance during the hosting of the Commonwealth Games in 1998.

Joint ventures in mobile healthcare equipment help organizations cope with the increasing costs of technology, insufficient density of population in some areas and the need for high quality medical care.

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Mobile Imaging Equipment

The increasing demand for digitization among hospitals and outreach facilities coupled with the high price of imaging equipment has spurred the growth of the mobile medical imaging industry. As an example, Johnson Medical’s mobile imaging equipment can be configured to house X-ray rooms, ICU wards, preparation rooms, etc.

A leading private hospital in Kota Kinabalu, Malaysia was operating well above its capacity of 700 beds. The OT department consisted of 5 main OTs and a minor fifth. The entire department had suffered considerable wear and tear over the years, and was overcrowded with supplies and patients. Johnson Medical offers container-based OT solutions for hospitals looking to increase their capacity.

Johnson Medical offers solutions for various medical services with mobile equipment. Mobile equipment offers benefits such as reduced costs, better service and faster response times when compared to fixed facilities. Mobile units can be easily configured to meet hospital demands and are ideal for areas with limited space or high patient volume.

Mobile Surgical Units

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The unit, the first of its kind in the world at the time, featured a portable space-saving design providing a unique combination of high performance, comfort and functionality in a mobile unit. The unit was subsequently used to temporarily host an additional operating theatre requested by the Malaysian government as a measure of extra vigilance during the hosting of the Commonwealth Games in 1998.

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The increasing demand for digitization among hospitals and outreach facilities coupled with the high price of imaging equipment has spurred the growth of the mobile medical imaging industry. There is a great demand for state-of-the-art mobile equipment for emergency rooms, out-patient departments and operation theaters.

Mobile equipment is gaining prominence in the field of computed tomography (CT), magnetic resonance imaging (MRI) and positron emission tomography (PET). A trend of deploying mobile imaging equipment, which is transferable from one hospital to another in a specially designed trailer, is also on the upswing.

In 1998, one of the biggest public hospitals in the world needed an emergency unit that was capable of being installed and main operating within 24 hours of any accident or emergency. The hospital had no budget for a capital purchase, and the mobile equipment needed to be transportable in a small space. Johnson Medical had developed the requested mobile operating room and had installed the unit just in time to be used during the Commonwealth Games hosted in Kuala Lumpur.

The unit, the first of its kind in the world at the time, was a transportable exterior operating theatre providing a unique combination of high-technology equipment and functionality in a modular format. The operating theatre is a proven new patented design to ensure functionality and ease of patient safety standards so as to be able to host very complicated surgeries.

Mobile surgical units can be manufactured using almost exclusively local resources. They consist of three separate ISO-based containers housing the main OT, induction and sterilization rooms and a store for sterile goods that are stored together using a specially designed docking channel to enable quick fit.

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Our mobile and diagnostics imaging equipment is easily and safely transferable from one hospital to another in a specially designed trailer.

In 1998, one of the largest public hospitals in the world needed an emergency unit that was capable of being installed and main operating within 24 hours of any accident or emergency. The hospital had no budget for a capital purchase, and the mobile equipment needed to be transportable in a small space. Johnson Medical had developed the requested mobile operating room and had installed the unit just in time to be used during the Commonwealth Games hosted in Kuala Lumpur.

The unit, the first of its kind in the world at the time, was a transportable exterior operating theatre providing a unique combination of high-technology equipment and functionality in a modular format. The operating theatre is a proven new patented design to ensure functionality and ease of patient safety standards so as to be able to host very complicated surgeries.

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