

**RIGSPACE**

**SPACEMAKER**

**BYRNE**  
**TECHNICAL SERVICES**



spacemaker.ae  
byrnetechical.com

# Introduction

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Spacemaker was founded in the UAE in 1990 and since then has grown to become one of the highest quality modular building construction suppliers in the Middle East.

A turnkey solution provider, able to deliver off-site **prefabricated modular building solutions** without having to rely on third party providers or sub-contractors.

All the engineering necessary is provided by our in-house team and we thrive on providing solutions to complex requirements.

Whatever the project and however remote, we can provide design, manufacturing, logistics, installation and maintenance.

Our innovation strategy ensures **creative solutions and the newest of technologies** are considered for every project.

Supported by our sister company Byrne Equipment Rental, one of the largest plant and equipment rental companies in the Middle East with 19 operational bases, covering the UAE, KSA, Kuwait, Oman and Bahrain and a fleet of over **14,000** items of plant and a team of **over 1,500 people**.

Byrne Equipment Rental's product range is built upon a successful 'single source solution' model approach, satisfying all equipment rental requirements across multiple industries. The rental fleet is constantly updated to carry the latest brands of equipment and technology, **enabling operational efficiency through equipment rental and lease solutions**.

# Product Range

**RIGSPACE****RAPIDSPACE****ECOSPACE (+)****EASYSACE****FLATSPACE****CONTAINERSPACE****OFFSHORESPACE****LUXSPACE****TRAILERSPACE****BALLISTICSACE****BLASTSPACE****eSPACE**

Spacemaker provides modular buildings for a variety of uses across a range of industries in the Middle East.

Our tailor-made engineering solutions can be used for simple or complex purpose-built structures including oilfield camps, office buildings, warehouses and schools.

Because we offer a turnkey service, there is no reliance on third party providers or sub-contractors which means projects that require fast-track turnaround are able to delivered in the shortest of times.

# Quality

It is Spacemaker's policy to identify the requirements of our customers and provide a service that meets or exceeds these requirements by the use of processes, materials, or products that avoid, reduce, or control pollution and comply with relevant laws, standards and regulations applicable to our business.

Our internal quality procedures adhere to the highest standard in the industry - from detailed documentation of material procurement to thorough certified inspections. This internal process ensures the highest quality of workmanship is met at all times.

## ISO Certification

Recognising the hazards present in our industry, we take every practical step to provide and maintain a safe and healthy work environment for all employees, subcontractors and visitors who may be affected by or come into contact with a Spacemaker project.

At Spacemaker our structured process for managing quality, health, safety and environmental activities in compliance with ISO certification is consistent with QHSEMS standards. Our QHSE management system procedures are documented to ensure our activities, conditions and tasks affecting quality, health, safety and environmental protection are planned, organised, executed, reviewed and improved.

## Our Certifications

**ISO 9001:2015** (Quality)

**ISO 45001:2018** (Health & Safety)

**ISO 14001:2015** (Environment)

**ISO 17065** (Product Certification – fire rated wall panels)



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# Capability

The RigSpace series is a specialised product line solely focused on driller / rig and military villages that need to be both highly durable and mobile.

RigSpace can be delivered as a turnkey village solution anywhere in the world to include power generation, water and sewage management, STP, RO and installation facilities. With the advantage of a plug and play system, the installation period is highly controlled to suit the toughest of schedules.

Our ability to commission an entire village within our manufacturing facility also provides comfort to our customers of the sustainability of the village.



# Technical Info

The combination of good quality, globally sourced materials and innovative architectural design results in visually appealing and comfortable accommodation despite the modular layout of the build.

Technical sizes range from 7m (23 ft), 9.6m (31 ft), 1m (22 ft) and 12m (40 ft) with widths ranging from 2.4m (8 ft), 3m (10 ft) and 3.6m (12 ft) respectfully.

The product also has fire rating conformance to the ASTM E119 standard for a 1 hour fire rating, certified with a well-established globally accredited certifying body.





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# Case Study

## Project – Haradh and Hawiyah, KSA

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We were awarded the build of two Rig villages which consisted of 2 sets of Main and Rig that totalled 175 RigSpace units to accommodate a total of 260 men.

As per the standard of onshore Saudi Aramco specifications, a compulsory requirements of the villages was high end gas detection systems (H2S) and an addressable type fire alarm and fighting system.

The RigSpace was a perfect solution due to the fact the Rig had to move multiple times over the course of the year and it was important to have as many elements plug-and-play to avoid downtime towards the rig up process.

This meant that the operation of the Rig was faster which ultimately reduced costs. The village included HO7 cabling systems, electrical rooms, sewage treatment plants, water treatment plants, fuel and water tanks and the accommodation design met Aramco standards especially with space provisions.

The detailed engineering approvals process was very important as this paved the way for what was an efficient (production) design.

We worked intrinsically with the customer to address all concerns whilst pre-empting any issues that they may face on-site, which enabled us to quickly apply any changes to the design as they arose.



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# Case Study

## Project – KOC Drill Rigs

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The petroleum industry in Kuwait is the largest sector in the country, accounting for nearly half of the country's GDP. Kuwait has proven crude oil reserves of 104 billion barrels (15 km<sup>3</sup>), estimated to be 9% of the world's reserve, being the fourth largest in the world.

KOC standards are fairly different from other parts of the Middle East but with similarities towards the fire rating, space arrangements and overall design.

We were honored to be awarded 2 Rig villages consisting of 2 sets of Main and Rig villages which had 156 RigSpace units and utilities buildings. The installation also included a fire alarm system (portable addressable system) and specialised H2S systems.

One of the highlights of the project was the need for 40ft long accommodation units which were to move on master skids.

Spacemaker ensured that the structural integrity of these builds were up to par and also met the necessary wind loads which is important in such remote locations.

The Rig village was completed successfully with Spacemaker even monitoring the initial rig moves.

Also, Spacemaker used premium highly insulated and durable products within the make-up of the product to ensure longevity of the village. This included the furniture, white goods, kitchen equipment, internal wall finish and more.

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