



HANDYSAM
— ENGINEERING —
FABRICATION | INSTALLATIONS | SYSTEMS
BUILT WITH PRECISION. DELIVERED WITH PRIDE.

CAPABILITIES & PRODUCTS CATALOG

HEALTHCARE INFRASTRUCTURE & SPECIALIST ENGINEERING SOLUTIONS



 www.handysamworks.co.ke
 @handysamworkske
 @handysamworkske
 @handysamworkske

 info@handysamworks.co.ke / handysamworks@gmail.com
 +254 787 315 910
 Charleston House, Ruiru, Eastern Bypass
(adjacent to Kidani Mabati Factory)

HOSPITAL DOORS • MEDICAL GAS PIPELINES (MGPS) • NURSE CALL SYSTEMS •
RADIATION SHIELDING • STAINLESS STEEL EQUIPMENT • PLANT COMPONENTS & SPARES

ABOUT US

HandySam Engineering provides reliable healthcare infrastructure, medical equipment, and specialist engineering solutions for hospitals, clinics, laboratories, and other healthcare facilities.

Our product range covers hospital doors, medical gas pipeline systems (MGPS), nurse call systems, radiation shielding solutions, stainless steel hospital equipment, and MGPS plant components and spares.

We combine quality products with practical engineering knowledge to help healthcare facilities build safe, functional, durable, and efficient environments. From individual equipment and components to complete system requirements, we aim to be a dependable partner for healthcare projects across the region.

FABRICATION | INSTALLATIONS | SYSTEMS

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TABLE OF CONTENTS

- 01. Hospital doors
- 02. MGPS Systems
- 03. Nurse Call Systems
- 04. X-Ray Radiation Shielding
- 05. Stainless Steel Ware
- 06. MGPS Plants Spares and Kits
- 07. Biomedical Engineering Services



SECTION 01 | *HYGIENIC & SPECIALIZED DOORS*

PRODUCT 1: SINGLE LEAF DOOR



**** Hermetically sealed single door****

Key Features:

- Antibacterial Surface Finish
- Flush Vision Panel Option
- Acoustic and Smoke Insulation

Technical Specification

- Frame Material: Stainless / Aluminium
- Core Material: Polyurethane, Honeycomb
- Door width: 800mm -1200mm
- Option Lead lining for xray shielding
- Option: Biometric control door lock

PRODUCT 2: DOUBLE LEAF SWING DOOR



**** Double Swing Action Door****

Key Features:

- High - Impact bumpers
- 180 - degree double
- Hands-Free kick plate

Technical Specification

- Frame Material: Stainless / Aluminium
- Core Material: Polyurethane, Honeycomb
- Door width: 1200mm -2000mm
- Option Lead lining for x ray shielding Option: Biometric control door lock

SECTION 01 | *HYGIENIC & SPECIALIZED DOORS*

PRODUCT 3: SLIDING DOOR



**** Sliding Door****

Key Features:

- High - Impact bumpers
- 180 - degree Single slin
- Hands-Free kick plate

Technical Specification

- Frame Material: Stainless / Aluminium
- Core Material: Polyurethane, Honeycomb
- Door width: 1200mm -2000mm
- Option: Lead lining for xray shielding
- Option: automatic non contact gesture door opening
- Option: Biometric control door lock

Color Variants to choose from



SECTION 02: MEDICAL GAS PIPELINE SYSTEMS (MGPS)

Category A: GAS MANIFOLDS AND OUTLETS



Automatic Gas Manifold Systems

- Automatic Changeover control
- Digital pressure Display
- Audio-Visual alarm inputs
- Conforms to HTM 02 01 Standards
- Options O2, MA4, N20



Cylinder Banks

- BS Standard
- Flexible Pigtails with safety wire
- Cylinder Bracket
- Variances: 2,3,4,5,6,8 cylinder banks
- Options: O2, MA4, N20



Gas Outlets

- BS Standard
- Standards: BS EN ISO 9170-1
- Color coded, DISS gas identification
- Options: O2, MA4, N20, Vac, MA7, AGSS



Gas and Electricity Modules

- BS Standard
- DKP Sheet Metal, Stainless Steel Sheet Metal
- Color: RAL Catalog
- Options: O2, MA4, N20, Vac, MA7, AGSS



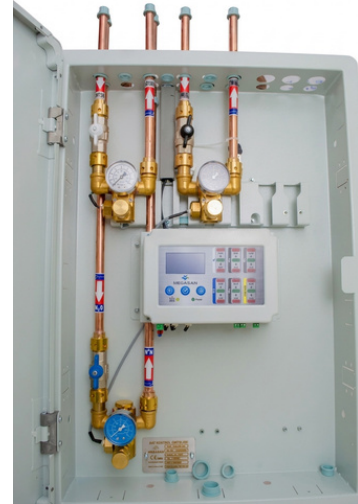
SECTION 02: MEDICAL GAS PIPELINE SYSTEMS (MGPS)

Category B: GAS ALARM PANELS, ZONE SERVICE UNITS (ZSU) & AREA VALVE SERVICE UNITS (AVSU)



Alarm Panels

- BS Standard
- Standards: 5 pressure alarms, 1 vacuum alarm
- LCD Alarm Unit
- Supports Modbus



Area Valve Service Units

- BS Standard
- Standards: HTM 02 01, EN ISO 15223-1:2021
- Color coded, DISS gas identification
- Options: O2, MA4, N2O, Vac, MA7, AGSS



Zone Service Units

- BS Standard
- Standards: HTM 02 01, EN ISO 15223-1:2021
- Color coded, DISS gas identification
- Options: O2, MA4, N2O, Vac, MA7, AGSS
- Single Gas Valve in each enclosure
- Lockable

SECTION 02: MEDICAL GAS PIPELINE SYSTEMS (MGPS)

Category B: BED HEAD UNITS(BHU) & DELIVERY DEVICES



Horizontal BHU module

- Integrated Gas Outlets
- Reading and Ambient light
- Class D electrical Outlets
- Provision for Nurse Call unit
- Provision for LAN Connection
- Options: O2, MA4, N20, Vac, MA7, AGSS
- Options: 1500mm – 1800mm



Vertical BHU module

- Integrated Gas Outlets
- Reading and Ambient light
- Class D electrical Outlets
- Provision for Nurse Call unit
- Provision for LAN Connection
- Options: O2, MA4, N20, Vac, MA7, AGSS



Headwalls

- Integrated Gas Outlets
- Reading and Ambient light
- Class D electrical Outlets
- Provision for Nurse Call unit
- Provision for LAN Connection
- Options: O2, MA4, N20, Vac, MA7, AGSS
- Customized to client requirements



Gas Pendants

- BS Standard
- Options: O2, MA4, N20, MA7, Vac, AGSS
- Electric and pneumatic control, and braking
- Input voltage 240V AC, 50Hz
- Up to 340 Degrees rotation

SECTION 02: MEDICAL GAS PIPELINE SYSTEMS (MGPS)

Category B: BED HEAD UNITS(BHU) & DELIVERY DEVICES



Flowmeters and Vacuum regulators

- BS Standard
- Back- Pressure Regulated
- Variable flow rate settings
- Variances: single, double
- Options: O2, Vac



Gas Pressure Regulators

- BS Standard
- Inlet pressure max 230bars
- Outlet pressure: 0-30 Bars
- Material: SS, Brass
- Options: O2, MA4, N2O



Vacuum Jars

- BS Standard
- Anti Overflow Float System
- Silicon Valve
- Option: Autoclavable and disposable variants
- Options: 1ltr, 1.5ltr, 2ltr



Degreased Copper Pipes and fittings

- Outer Diameter: 12mm - 54mm
- Wall thickness: 0.8mm - 1.2mm
- Standards: EN13348 / HTM 02-01
- Fittings: Equal tee, elbow, coupler, reducing couplers

SECTION 03: NURSE CALL SYSTEMS

Wired Smart Nurse Call

- Topology Connection: Ethernet, Bus-line
- Anti Bacterial Hand Units
- Integrated Call Cancel Buttons
- Code Blue
- Master Console Display
- PoE



Wireless Instant Call System

- Topology Connection: RF 433MHz/ Smart Mesh Tech
- Anti Bacterial Hand Units
- Integrated Call Cancel Buttons
- Code Blue
- Master Console Display
- Long Battery Life
- Fast Installation, no trunking

SYSTEM ARCHITECTURE/ COMPONENT BREAKDOWN:

1. Bedside call unit
2. Door Indicator Lamp
3. Master Station
4. Pull-cord Bathroom Switch
5. Duty Room Receiver
6. RF transmitters

SECTION 04: X-RAY SHIELDING PRODUCTS

LEADSHEETS:

1. 99% pure lead
2. Thickness Requirements: 0.3mm – 2.0mm
3. Measurements: 4ft * 8ft



LEAD GLASS:

1. High optical rating
2. Lead Equivalent 1.5mm – 3.0mm mmPb
3. Custom cut dimensions
4. 300mm * 300mm lead glass

X-Ray Shield:

1. Heavy - duty castors
2. Panoramic window
3. Full - duty castors
4. Panoramic window
5. Full - body protection
6. 1800mm * 900mm
7. 2.0mm Pb equivalent



SECTION 05: STAINLESS STEEL WARE (304 / 316 GRADE)

Surgical scrub Sink:

1. 1, 2, 3 Bay Scrub Sink
2. Elbow action and knee operated
3. AISI 304 Stainless
4. 800 - 1800 (ltr)
5. Option: sensor Operated, thermostatic mixing



Sluice & waste Sink:

1. Double hopper with Water closet
2. Integrated Flushing rim
3. Deep Bowl Design
4. AISI 304 / 316 Grade
5. 1200mm * 600mm * 850mm

Drug and Utility Troughs:

1. Anti-static Troughs
2. AISI 304 Polished
3. Lockable Drug Drawers
4. Option: custom modular



SECTION 06: MGPS PLANT SPARES & PNEUMATIC/HYDRAULIC PARTS



Service & Maintenance Kits:

1. Vacuum pump overhaul kits
2. Air Compressor filter kits
3. Desiccant drier refill packs
4. Oxygen plant maintenance kits

Pneumatic & Hydraulic Parts:

1. High pressure regulators
2. Solenoid & Check valves
3. Pressure Switches & gauges



SECTION 06: BIOMEDICAL ENGINEERING SERVICES

OUR SERVICES

1. *Hospital Design Consultancy*
2. *Medical Equipment maintenance Services*
3. *Medical Equipment calibration services*
4. *Medical equipment Installation, training and commissioning services*





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- Plant Components & Spares • Equipment Calibration & Repair

GET IN TOUCH



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