

The background is a vibrant, futuristic laboratory scene. It features several glowing DNA double helix structures in shades of blue and gold. Interspersed among them are various chemical structures, including a large porphyrin-like ring with a central metal atom (labeled 'Zn') and several 'Ar' groups, and other complex organic molecules. The scene is set against a dark blue and purple gradient with glowing particles and light flares. A central white text box with a dark border contains the text 'LABORATORY ENGINEERING'.

# LABORATORY ENGINEERING

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# COMPANY PROFILE

## ABOUT US

Newtech is a diversified contracting firm providing customers and clients with a broad range of integrated products, services and solutions. Our operations span the full spectrum of the market from commercial to residential, retail and industrial sectors. We have the depth and breadth of resources, experience and expertise to respond to the demands of the most technically challenging and time-critical projects, offering a comprehensive range of quality products as well as architectural and engineering services in the following sectors:

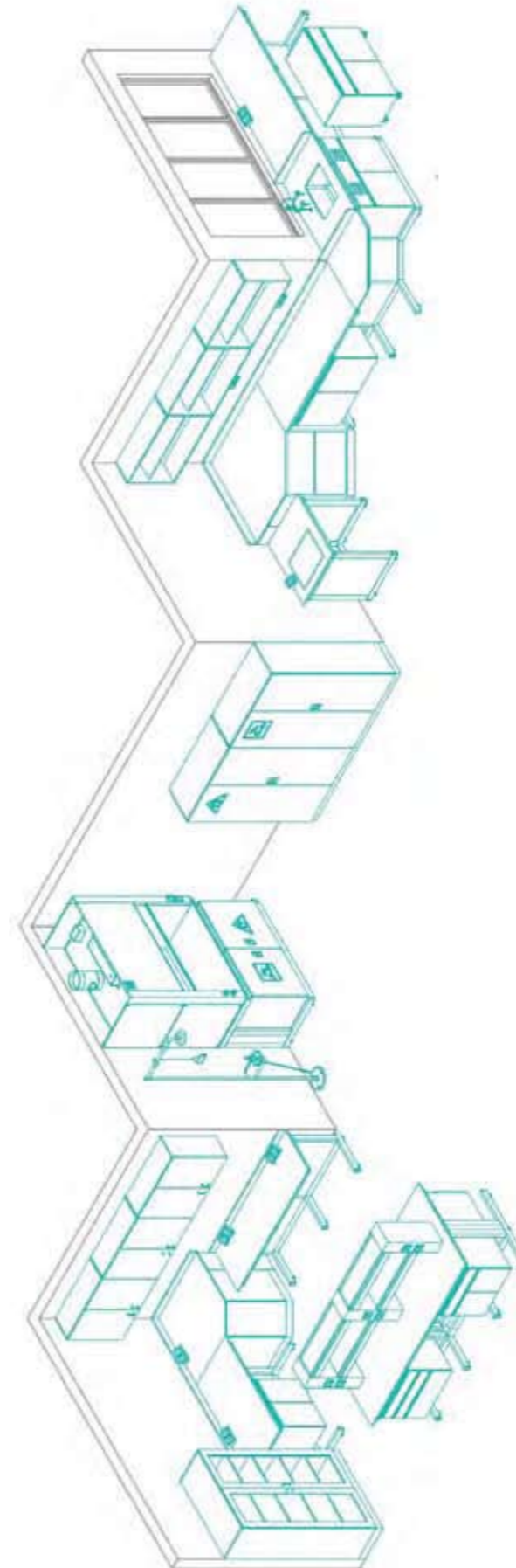
**Commercial, Retail & Offices**  
**General & Specialised Laboratory**  
**Medical & Academic Institutions**  
**Financial institutions**  
**Hotels & Resorts**  
**Residential**  
**Industrial**

## INTEGRATED SERVICES

Newtech employs specialists, working across a broad range disciplines. Experience, technical innovation and creativity are at the core of who we are. For more than 20 years, we have concentrated on leveraging these assets to deliver solutions for our clients. The services we provide include:

**Design and Build**  
**Renovation and Refurbishment**  
**Project Procurement Management**  
**Customised Product Design**  
**Design Consultancy**  
**Interior Construction**  
**Project Management**  
**Supply and Install**  
**Interior Design**

# WORKBENCHES



Mobile base cabinet

Pedestal sink cabinet

Octagonal corner

Suspended base cabinet

Anti-vibration table

Safety storage cabinet

Fume cupboard with built-in under bench safety storage cabinet





Floor mounted safety shower comes with eyewash

Wall mounted cabinet above wall bench

Island bench

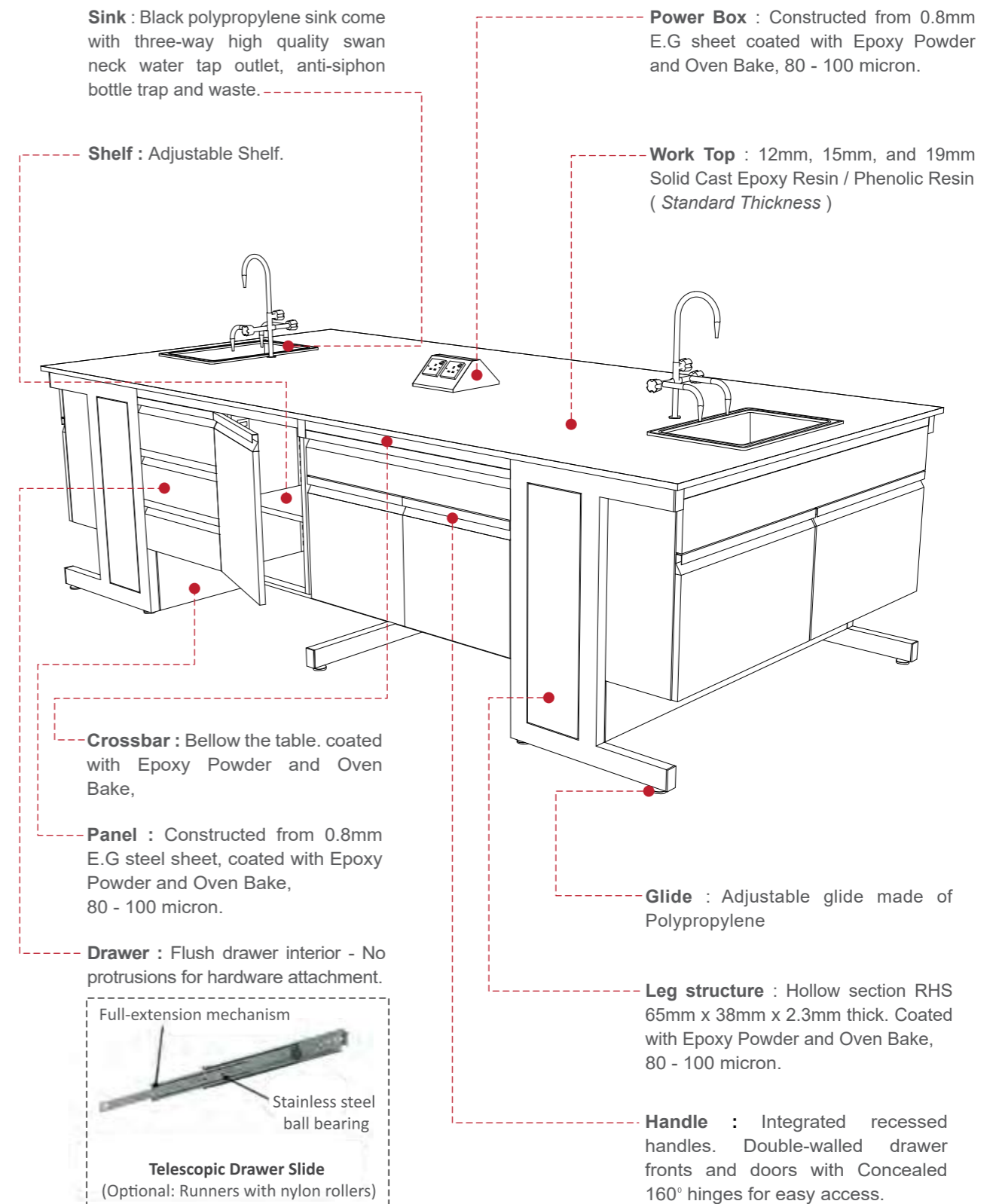
Full height storage cabinet

# WORK SURFACES

				
<b>Description</b>	<b>Epoxy Resin</b>	<b>Phenolic Resin</b>	<b>Plastic Laminate</b>	<b>Stainless Steel</b>
<b>Basic Material</b>	Epoxy resins and inert materials	Solid Core Phenolic	Wood particle core with plastic laminate surface	Type 304 stainless steel
<b>Physical Properties</b>	Extremely hard		Plastic laminate with moulded wood core, difficult to repair	Heavy-gauge Type 304
<b>Appearance / Colour</b>	Low sheen finish, Black and grey	Smooth finish, Black and colours	Smooth satin finish, Black and colours	Smooth satin finish
<b>Ease of Cleaning</b>	Good	Good	Fair	Excellent
<b>Chemical Resistance</b>	Excellent resistance to wide range of acids, solvents and alkalis	Excellent resistance to wide range of acids, solvents and alkalis	Poor	Good resistance to wide range of chemicals; subject to attack by some
<b>Heat Resistance</b>	Excellent	Good	Fair; should not be exposed to direct flame	Discolours at high temperature
<b>Impact Resistance</b>	Excellent	Good	Fair	Excellent
<b>Load Capacity*</b>	Good	Good	Good	Excellent
<b>Electrical Conductivity</b>	None	None	None	Highly conductive
<b>Moisture Resistance</b>	Excellent	Good	Fair	Superior
<b>Standard Thickness**</b>	19mm , 25mm	12mm, 15mm 18mm, 25mm	18mm, 25mm, 30mm	N.A

\* Load capacities are also determined by supporting structures.  
\*\* Work surfaces with non-standard thicknesses are also available.

# MATERIAL SPECIFICATION



**Sink** : Black polypropylene sink come with three-way high quality swan neck water tap outlet, anti-siphon bottle trap and waste.

**Shelf** : Adjustable Shelf.

**Work Top** : 12mm, 15mm, and 19mm Solid Cast Epoxy Resin / Phenolic Resin ( *Standard Thickness* )

**Power Box** : Constructed from 0.8mm E.G sheet coated with Epoxy Powder and Oven Bake, 80 - 100 micron.

**Crossbar** : Bellow the table. coated with Epoxy Powder and Oven Bake,

**Panel** : Constructed from 0.8mm E.G steel sheet, coated with Epoxy Powder and Oven Bake, 80 - 100 micron.

**Drawer** : Flush drawer interior - No protrusions for hardware attachment.

**Telescopic Drawer Slide** (Optional: Runners with nylon rollers)

**Glide** : Adjustable glide made of Polypropylene

**Leg structure** : Hollow section RHS 65mm x 38mm x 2.3mm thick. Coated with Epoxy Powder and Oven Bake, 80 - 100 micron.

**Handle** : Integrated recessed handles. Double-walled drawer fronts and doors with Concealed 160° hinges for easy access.



## SUSPENDED SYSTEM

- Standard 'c' or 'h' frame system.
- Work surface supported by steel base frame.
- Under-bench and storage units suspended from steel base frame.
- Integrated with utility fittings.
- Versatility & flexibility. Easy to assemble and maintain.
- Concealed pipeworks and electrical wirings.
- Provides easy access to utility and service works.
- Suitable for educational laboratories and research laboratories.



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## PEDESTAL SYSTEM

- Work surface supported by under-bench storage units.
- No steel base frame required.
- Integrated utility fittings.
- Durability & robust. Ideal for supporting heavy equipments.
- Concealed pipeworks and electrical wirings.
- Rigid construction with covered up flooring.
- Suitable for clean or sterile environment, biological labs, heavy duty plants, and semi-permanent set up.



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## I-LEG / C-LEG SYSTEM

- Work surface supported by steel base frame.
- Steel frame bolted onto wall or floor substrate.
- Fully detached under-bench storage units.
- Light duty set up.
- Concealed pipeworks and electrical wirings.
- Suitable for multiple research labs.
- Labs requiring rapid regular cleaning or disinfection.
- Flexibility & functionality. Ideal for labs that need maximum floor space for underbench equipments and furniture location.



## HYBRID SYSTEM

- Combination setup for personalized usage of space and facilities.
- Fully customizable to specifications.
- Personalized & adaptability. Ideal for supporting heavy equipments.
- Concealed pipeworks and electrical wirings.
- Rigid construction with covered up flooring.
- Suitable for multiple function labs.
- Combination of testing, research & teaching labs.



# PEDESTAL CABINETS



PRODUCT CODE	SIZE (LENGTH)
1S	450
	600



PRODUCT CODE	SIZE (LENGTH)
2S	750
	900
	1050



PRODUCT CODE	SIZE (LENGTH)
1D1S	450
	600



PRODUCT CODE	SIZE (LENGTH)
1D2S	750
	900
	1050



PRODUCT CODE	SIZE (LENGTH)
1SK-2S	450
	600
	750
	900
	1050



PRODUCT CODE	SIZE (LENGTH)
3D	450
	600
	750
	900
	1050



PRODUCT CODE	SIZE (LENGTH)
4D	450
	600
	750
	900
	1050



PRODUCT CODE	SIZE (LENGTH)
5D	450
	600
	750
	900
	1050

# SUSPENDED CABINETS



PRODUCT CODE	SIZE (LENGTH)
1S	450
	600



PRODUCT CODE	SIZE (LENGTH)
2S	750
	900
	1050



PRODUCT CODE	SIZE (LENGTH)
1D1S	450
	600



PRODUCT CODE	SIZE (LENGTH)
1D2S	750
	900
	1050



PRODUCT CODE	SIZE (LENGTH)
1SK-2S	450
	600
	750
	900
	1050



PRODUCT CODE	SIZE (LENGTH)
3D	450
	600
	750
	900
	1050



PRODUCT CODE	SIZE (LENGTH)
4D	450
	600
	750
	900
	1050

# MOBILE CABINETS



PRODUCT CODE	SIZE (LENGTH)
1S	450
	600



PRODUCT CODE	SIZE (LENGTH)
2S	750
	900
	1050



PRODUCT CODE	SIZE (LENGTH)
1D1S	450
	600



PRODUCT CODE	SIZE (LENGTH)
1D2S	750
	900
	1050



PRODUCT CODE	SIZE (LENGTH)
3D	450
	600
	750
	900
	1050




PRODUCT CODE	SIZE (LENGTH)
4D	450
	600
	750
	900
	1050

\*\*Custom size available

# WALL HUNG CABINETS

PRODUCT CODE	SIZE (LENGTH)
 OPEN SHELF	400
	450
	500
	800
	900
	1000


PRODUCT CODE	SIZE (LENGTH)
 SWING DOOR	400
	450
	500
	800
	900
	1000

PRODUCT CODE	SIZE (LENGTH)
 GLASS SLIDING DOOR	400
	450
	500
	800
	900
	1000

PRODUCT CODE	SIZE (LENGTH)
 GLASS SWING DOOR	400
	450
	500
	800
	900
	1000

# HIGH CABINETS

PRODUCT CODE	SIZE (LENGTH)
 OPEN SHELF	400
	450
	500
	800
	900
	1000

PRODUCT CODE	SIZE (LENGTH)
 SWING DOOR	400
	450
	500
	800
	900
	1000

PRODUCT CODE	SIZE (LENGTH)
 GLASS SLIDING DOOR	400
	450
	500
	800
	900
	1000

PRODUCT CODE	SIZE (LENGTH)
 GLASS SWING DOOR	400
	450
	500
	800
	900
	1000

\*\*Custom size available



# LABORATORY ACCESORIES



## LAB SINK & WASTE SYSTEM

Lab sink & waste system are designed and developed to meet the requirements of modern laboratories and are specifically for use with potable water supply. We have various types of lab sink fittings such as bottle trap, sink waste, polypropylene lab sink, F.I to Pipe Couplers and



## GAS FITTING

Gas fitting are designed for use with special gases and burning gases. All gas fittings are made of solid brass pressings alongside high quality brass tubes, both closely monitored by the Quality Control department to ensure problem free machining.



## WATER FITTING

Water fittings are designed and developed to meet the requirements of modern laboratories and are specifically for use with portable water supply. When installing fittings, local water bylaws must be adhered to.



## LABORATORY CHAIRS AND STOOLS

Available in a variety of designs materials, we offer multi and specialist application ranges, including ESD static-safe and sterile/ clean-room products, designed to ensure that both the ergonomic requirements of the user and the demanding technical requirements of the laboratory are met.

# INDUSTRIAL WORKBENCH

Individuals who work in industrial or manufacturing environments, laboratories or workshops know the importance of having a work space that increases the productivity at every move. Acquiring effective and efficient workbenches and tables is one way of ensuring that your working environment is both safe and comfortable. Wide array of workbenches and work tables that offer different styles and functionalities.



# ESD WORKBENCH

The ESD protection is most important in electronic industry for electronics production, repairing, testing and any work related with electronics. The ESD protections solutions guides the static electricity to the earth ground with a safety way.

