



# Industrial Solution Portfolio

A Portfolio for your Industrial needs



Laboratory



Manufacturing



Turnkey Projects

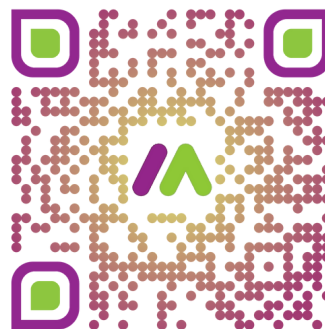


Digitalization

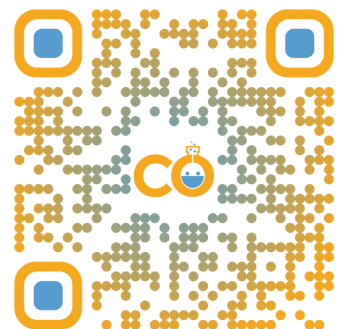


Services

Our Digital Channels



LinkTree



Ecommerce

# ABOUT MAHA

Maha Chemicals Asia, founded in 1975, is one of the foremost brands in equipment and specialty chemicals distribution in Southeast Asia. With the headquarter based in Singapore, we provide a wide range of solutions with a deep understanding of customers' needs across the various industries. Currently, we operate across 12 countries: Singapore, Malaysia, Philippines, Thailand, Vietnam, Sri Lanka, Indonesia, Myanmar, Cambodia, South Korea, China and Bangladesh

## Our Vision:

The Preferred Partner for sustainable chemistry.

## Our Mission:

Enriching lives with Chemistry, by: **S**haring knowledge, **P**romoting sustainability, **F**ostering bonds

## OUR BUSINESS UNITS



Laboratory

- Scientific Equipment
- General Lab Equipment
- Laboratory Consumables



Manufacturing

- Additive Manufacturing
- Paint Dispensing Machine



Turnkey Projects

- Laboratory Set-Up
- Makerspace Set-Up
- Equipment Customisation



Digitalization

- Industrial Software
- Monitoring Systems



Consultancy

- Training
- After Sales Equipment Management
- Technical Advisory



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## OUR LOCATIONS

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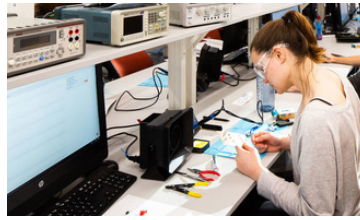
# INDUSTRIES WE SERVE

## Life Science



- Centrifuge
- Shaking Incubator
- Vacuum Aspiration System
- PCR Cabinet
- Water Purification System

## Testing Labs



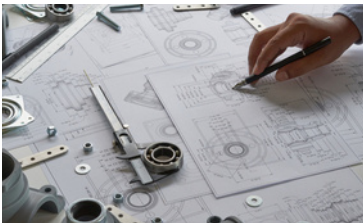
- Accelerated Weathering Tester
- Temperature & Humidity Chamber
- Climate Chamber

## Food



- Texture Analyzer
- Viscometer
- Moisture Analyzer
- Centrifuge
- Water Purification System
- Freeze Dryer

## Engineering



- Precision Parts (Metal & Plastics)
- Prototyping
- Jig & Fixtures
- Tooling

## Electronic



- Printed Circuit Board
- Semiconductor
- Connectors

## Product Manufacturing



- Medical Devices
- Surgical Devices
- Implants

# CUSTOMERS WE SERVE

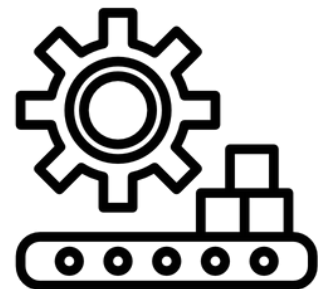
## Research / Quality Control



## Testing Laboratories



## Product Manufacturing



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# OUR FACILITIES



Training and Seminar Rooms

All Offices

Demo and Formulation Laboratories  
FSG, ID, KR, MY, VN



Warehouses

All Offices

# OUR DIGITAL CHANNELS



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SINGAPORE | MALAYSIA | PHILIPPINES | THAILAND | VIETNAM | SRI LANKA | INDONESIA | MYANMAR  
CAMBODIA | CHINA | SOUTH KOREA | BANGLADESH



# OUR SUPPLIERS



# SUSTAINABILITY



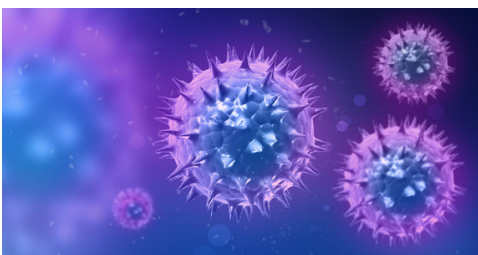
## Green & Sustainable Technologies

- Alternative energy
- Waste reducing technologies
- Chillers that utilize environmentally friendly refrigerants



## Productivity

- Industrial 4.0
- Digitalization to reduce inefficiency
- Monitoring systems



## Health & Safety

- LumenLabs 222nm Filtered Far-UVC Disinfection Lamp



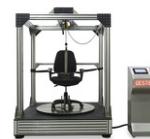
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# LABORATORY AND ANALYTICAL INSTRUMENTS



## Weathering & Corrosion Testers

- QUV Accelerated Weathering Tester
- Q-SUN Xenon Test Chamber
- Q-FOG Cyclic Corrosion Tester
- QLAB Test Panels



## Professional Lab Test Instruments

- Flexing Tester
- Flammability Tester
- Abrasion Tester
- Lab Dyeing & Finishing Machine



## Laboratory Instruments

- Density Meter
- Refractometer
- Flash Point Tester
- Moisture Analyzer
- Particle Size Analyzer
- Microwave Digestion



## Viscosity Measurement

- Viscometers
- Rheometers
- Texture Analyzer



## Color Measurement Instruments

- Benchtop Color Spectrophotometer
- Portable Spectrophotometers
- On-line Spectrophotometers



## Paint & Coating

- Viscometer
- Homogenizer
- High Speed Dispenser
- Balance/Weighing Scale
- Wet Abrasion Scrub Tester
- Heating Bath
- Color Assessment Cabinet

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## Disperser

- Paint disperser tester

PHAOS TECHNOLOGY  
BEYOND OPTICAL LIMITS



## Advance Optical Technology Provider

- Optical Microscope
- Metrology & Test Equipment



## Reliable Centrifuges

- Blood Bank Centrifuge
- High Speed Refrigerated Centrifuges
- PCR/COVID Test Centrifuge
- Clinical Centrifuges
- Low Speed Centrifuge
- Large Capacity Centrifuges

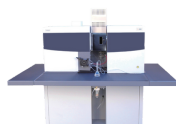


Bioevopeak



## General Laboratory Equipment

- Overhead Stirrer
- Biological Safety Cabinets
- Shaking Incubator
- Magnetic Stirrer
- CO2 Incubator
- Drying Oven
- Rotary Evaporator



KLAB  
Keen Innovative Solutions



## Analytical Instruments

- Atomic Absorption Spectrometer
- Inductively Coupled Plasma Optical Emission Spectrometer
- UV-Visible Spectrophotometers
- Inductively Coupled Plasma Time-of-Flight Mass Spectrometer

## UV -Vis Spectrophotometer

- Molecular Spectroscopy
- Life science



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**KOMEG®**



## Advanced Environmental Test Equipment

- Environment Test Chambers
- High & Low Temperature Test Chambers
- Walk-in Chambers



## Lab Balance, Industrial Scales, Instrument & Equipment

- Centrifuges
- Overhead Stirrers
- Moisture Analyzers
- Pipettes
- Vortex Mixers

**RWD**  
RWD Life Science



## Life Science Research Instruments

- Automated Cell Counter
- CO2 Incubators
- Single Cell Suspension Dissociator
- Microcentrifuge
- Microtomes
- Cryostat

**iUL**



## Microbiological Solutions

- Sample Preparation
- Inoculation
- Colony Counter
- Slide Staining
- Air Sampling

**TOPTION**



## Process Chemistry

- Distillation System
- Evaporator
- Reactor Systems
- Essential Oil Extractor

imrali  
**inventions™**  
INVENTING A BETTER FUTURE FOR YOU



## Microscope Slides Cleaners

- For automated Cell Counters
- Compatible with Market Leading Brand Logos Bio-Systems, Bio-rad, Invitrogen



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# LABORATORY AND ANALYTICAL INSTRUMENTS



## Live Algae Production Equipment

- Photobioreactor  
100L/1250L/2500L



## Specialist Laboratory Equipment

- Temperature & Humidity Cabinet
- Plant Growth Chamber



## Lab Water Purification System

- Water Purification Systems
- Replacement Consumables
- Filtration Products

## LIEBHERR



## Laboratory Refrigerator

- Laboratory freezers
- Ultralow freezers
- Pharmaceutical Storage



## Drying & Storage Solutions

- Dry Cabinets
- Semiconductor Oven
- Tunnel Furnace
- Dry Nitrogen Cabinet



## Industrial Water Purification

- Medical
- Industrial
- Pharmaceutical



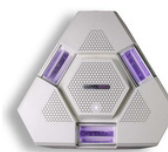
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# LABORATORY AND ANALYTICAL INSTRUMENTS



## Moisture Meters

- Moisture Meters



## Filtered Far-UVC Disinfection Device

- Lumenizer 300 (222nm Far UVC Disinfection Lamp)



## Laboratory Glassware & Plasticware

- Microscope Slides
- Plastic Slide Storage Box
- Embedding Cassette
- Petri Dish
- Centrifuge tube
- Pipette Tips



## Analytical Lab Supplies

- Autosampler Vial
- Headspace Vial
- Sample Vial
- Sterile Syringe Filter
- Membrane Filter



## Laboratory & Life Science Reagents

- Reagents, Chemical and Labware
- Life Science Reagents
- Biopharmaceutical



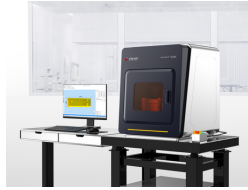
## Nitrile Powder Free Gloves

- Nitrile Butadiene Rubber
- Medical & Industrial Grade
- Powder Free

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# PROCESS AND MANUFACTURING SOLUTIONS



- Micro-Precision 3D Printers
- Industrial/Desktop system

### Benefit

- Microscale 3D Printing
- Open system materials & parameters
- Real-time image monitoring

### Key Specs

- Build size up to 100 x 100 x 75 mm
- Optical resolution: 2, 10, 25  $\mu$ m
- Printing material: High temp, ceramic, photosensitive resin and more



- Powder Bed Fusion (SLS & SLM)
- Industrial system

### Benefit

- 3D print with polymer or metal powder
- Open system materials & parameters
- Cost effective

### Key Specs

- SLS: Build area (x, y, z) up to: 1000 x 500 x 450 mm; 100W CO2 Laser
- SLM: Build area (x, y, z): 425 x 425 x 400 mm; 500W Dual Fibre Laser



- Fluid Additive Manufacturing (FAM)
- Desktop system

### Benefit

- 3D print with gel-type materials such as silicone, hydrogel, ceramic/magnetic gels
- Up to 3 material in a single print
- Silicone-compatible water soluble support structure

### Key Specs

- Build: 235 x 270 x 150 mm
- Triple discharge nozzle
- Print with materials up to 2,000 PaS viscosity

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## ARBURG



- Droplet Deposition Modelling (DDM)
- Industrial system

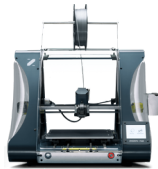
### Benefit

- 3D print with polymer granules
- High part strength and performance
- Up to 3 material in a single print

### Key Specs

- Build: 234 x 134 x 230 mm
- Melt Temp: 450 °C & Chamber Temp: 200 °C
- Triple discharge nozzle

## Zmorph



- Fused Filament Fabrication (FFF)
- CNC Milling
- Laser Engraving
- Desktop system

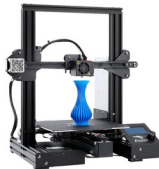
### Benefit

- Best 3-in-1 Desktop 3D printer system
- ZMorph Academy
- Design for first timers

### Key Specs

- Build: 235 x 250 x 165 mm
- Melt Temp: 250 °C & Table Temp: 100 °C

## CREALITY



- FDM 3D Printer
- Resin 3D Printer
- Fully Enclosed 3D Printer

### Benefit

- Integrated Compact Design
- Ultra Silent Printing
- Easy To Operate
- High-precision printing

### Key Specs

- Ender-3V2 Printing Size: 220 x 220 x 250 mm
- Filament: PLA/TPU/PETG
- Print Precision: ±0.1 mm



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# PROCESS AND MANUFACTURING SOLUTIONS

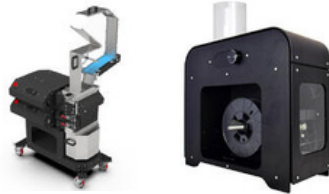


## SLA Resin 3D Printer

- SLA Printer
- DLP Printer

## SLS 3D Printer

- Research SLS Printers



## Polymer Filament Recycling

- Filament Maker
- Polymer Shredder
- Polymer Dryer



## Polymer Processing Solutions

- Drying and Humidifying Systems
- Feeding and Conveying
- Dosing and Mixing
- Granulating and Recycling



## Furnace Solutions

- Laboratory Furnaces
- Industrial Furnaces
- Arts & Craft Furnaces
- Dental Furnaces



## Metallography

- Sample Cutting and Mounting
- Polishers
- Hardness Testers

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# PROCESS AND MANUFACTURING SOLUTIONS

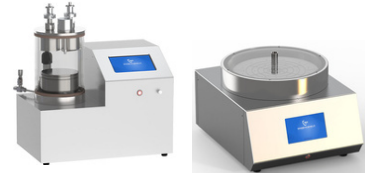
## corob



### High-Tech Dispensing And Mixing Solutions

- Paint Dispensers
- Gyroscopic Mixer
- Paint Shaker

YKY 成越科学仪器  
CY SCIENTIFIC INSTRUMENT



### Spin Coating & Sputtering Solutions

- Spin Coater
- Plasma Sputtering
- Plasma Cleaner
- Spray Pyrolysis System

PTC



### Visual Inspection Instruments

- Polariscope
- Surface Stress
- Glass Inspection Systems

YOLIAN 友联机械



### Packing & Filling Solutions

- Filling Machines
- Capping Machines
- Labeling Machines

## ZDS



### SLA Resins

- UV Resins



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## GRANULES

For Arburg Freeformer

### Standard thermoplastics



ABS

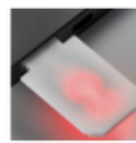


PP



PMMA

### Special materials



Conductive  
(CNT compounded)

### Performance thermoplastics



TPU



PA



TPE  
(10ShoreA above)



PC



PLLA



PEI

## FILAMENTS

For Zmorph

### Standard thermoplastics



PLA



ABS



Metallic



PET-G



Wood



PVA

### Performance thermoplastics



PEEK



PA



PC



HIPS



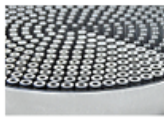
Flexible

## POWDERS

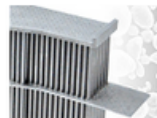
For Farsoon SLM & SLS



Titanium  
(Ti6Al4V, TA15)



Inconel  
(718, 625, 3536)



Aluminum  
(AlSi10Mg)



Stainless Steel  
(316L, 420, 15-5, 17-4)



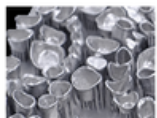
PA6, 11, 12



TPU



PPS



Cobalt Chrome  
(CoCrMo, CoCrMoW)



Bronze  
(CuSn10)



Maraging Steel  
(18Ni300)



Other Special  
Materials



Carbon-fibre  
Filled



Glass-bead  
Filled



Mineral-fibre  
Filled



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# TURNKEY PROJECTS



# DIGITALIZATION



# CONSULTANCY



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# TECHNICAL SERVICES



## Training

Our training services include specialized user trainings by our certified technical experts.

Theoretical training followed by hands-on training is provided to achieve the following objectives:

- To ensure that the users in the analytical laboratory use systems more effectively;
- To ensure that the users are familiar with the working principles of the instruments that they will use;
- To be able to configure or update their systems in accordance with their application needs;
- To define and explain major points for sample preparation and to prevent common mistakes to happen while using an analytical instrument.

## Preventive Maintenance

Our certified support team, continuously updating themselves through vendor trainings and seminars provide highest quality after sales support services.

We keep our systems robust through periodical service, maintenance and validation contracts for the installed instrument base. Moreover, using the maintenance and validation protocols, we track our systems in order to keep their performance and robustness at the maximum. We keep and update our *critical spare parts inventory* for *immediate service support* in case of failure in order to avoid long downtime.

## Calibration

Calibration of temperature, irradiance, humidity equipment and more.

## Commissioning Projects

Helping customers to do commissioning for special projects.



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