



**ACCUMAX**



**CPP**



**NEUATION**



**ahn**  
biotechnologie GmbH

# Accumax Group

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Corporate Presentation

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## Executive Team

- ☐ Mr. CHIRAG SHAH – Co-Founder, President
- ☐ Mr. TEJAS SHAH – Co-Founder, Director



Team in India

1242

Team in Germany

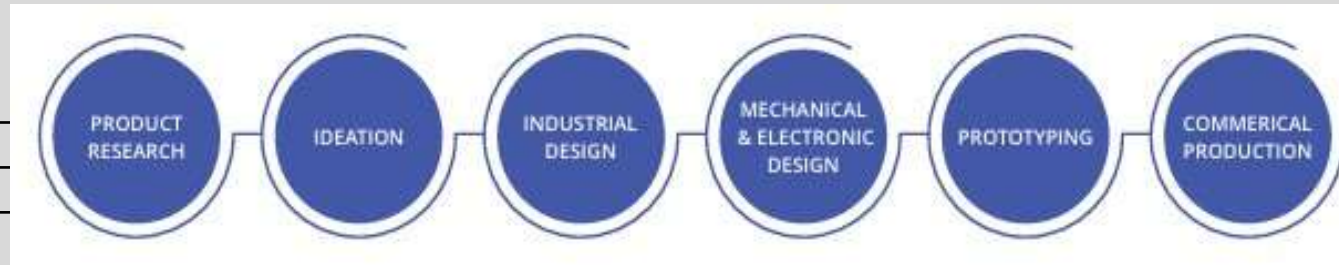
135



# USP

## Product Ideation to Delivery

Design Team	49
Product Application Team	14
Production Team	969
Logistics Team	7



# Accumax: Fastest Growing Liquid Handling and Laboratory Equipment Manufacturer

## Product ideation to delivery capabilities



~2 decades of experience in Design, Development and Manufacturing of laboratory consumables



4 Manufacturing units spread across India (3) and Germany (1), 1 Gamma Sterilization Plant in India



Proven expertise in polymer based high quality & precision products, validated by leading global partners and distributors  
More than 2300+ SKUs in the offering



Globally competitive with a market presence in 130 countries & 2,000+ customers



70+ injection moulding machines and 20+ robotic stations for clean room assembly

## Certifications

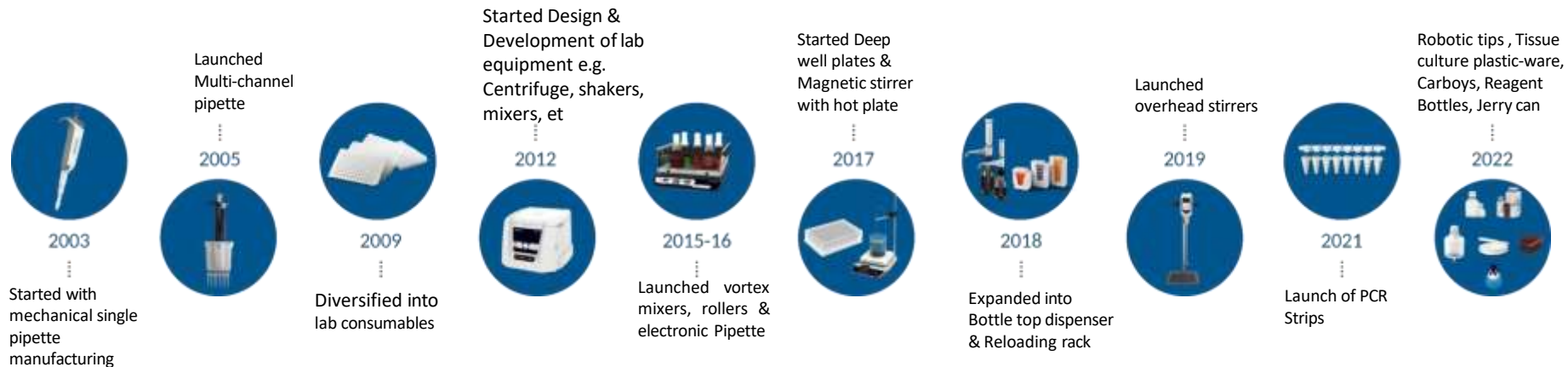


## Trademark





























*Inhouse Product design and development capabilities with precision manufacturing makes Accumax Group a preferred partner*

## Evolution of Accumax and the product portfolio expansion



*Accumax offers a large product portfolio, and works closely with its partners to launch new and customized products with innovative designs*

Offering a comprehensive product portfolio of lab consumables and equipment

Liquid Handling	Storage Solutions	Molecular Biology	Benchtop Equipments
 <p>Mechanical Pipettes</p>  <p>Multi-channel Pipette</p>  <p>Electronic Pipettes</p>  <p>Robotic Tips</p>  <p>Pipette Tips</p>  <p>Pipette Controller</p>  <p>Bottle Top Dispenser</p>  <p>Centrifuge Tube</p>  <p>Micro Centrifuge Tube</p>  <p>Filter Plates</p>	 <p>Media Bottles</p>  <p>Carboys</p>  <p>Reagent Bottles</p>  <p>Jerrycan</p>  <p>Cryovials</p>	 <p>PCR Consumables</p>  <p>Deepwell Plates</p>  <p>Filter Plates</p>	 <p>Centrifuges</p>  <p>Vortex Mixers</p>  <p>Dry Bath</p>  <p>Rollers</p>  <p>Stirrers</p>  <p>Shakers</p>  <p>Incubators</p>  <p>Homogenizer</p>

Accumax offers 2,300+ SKUs to cater to the wide requirement of the industry partners

... and many more

## Product Portfolio

### Liquid Handling

- Fixed Volume Pipette
- Variable Volume Pipette
- Fully Autoclavable Pipette
- Electronic Pipette
- Junior Pipette
- Transfer Pipette
- Bottle Top Dispenser
- Pipette Controller
- Pipette Tips
- Robotic Tips
- Deep Well Plates
- Reservoirs
- PCR Consumables

### Tubes

- Centrifuge Tubes
- MCT tubes
- Cryovials
- Screw Cap Vials

### Packaging Solutions

- Reagent Bottles
- Media Bottles
- Carboys
- Jerri Cans

### Filtration

- Spin Columns
- Filter Plates

### System Bottles

- HDPE Bottles with PP caps

### Microbiology Plastics

- Petri plates (PS)

## Upcoming Products

### Cell Culture Plastics

- Culture Flask
- Cell culture well plates
- Roller bottles

We have marked a new benchmark in production by making over

- 100,000 benchtop lab equipment** in a year,
- 1500 pipettes** in a day,
- 3 million tips** in a day,
- 6000 Deep well/PCR plates** in a day and
- 1.2 lakh petri plates** in a day.

# Why Choose Accumax for Your OEM / White Labelling Needs

## Plastic Consumables, Storage & Packaging Solutions

### 1. Strong OEM Expertise

Decades of experience in precision plastic moulding and bench top lab equipment.

Proven success in delivering private-label solutions globally

### 2. Customizable Manufacturing Capabilities

Flexible tooling for tailored specifications and branding

Full End to end support from design to dispatch, including packaging

### 3. Scalable Production & Speed-to-Market

Ready Cleanroom infrastructure enabling high-volume, rapid turnaround

Agile supply chain to support regional and global markets

### 4. Quality & Global Compliance

ISO-certified facilities with cleanroom manufacturing

Products meet global regulatory standards (ISO, CE, etc.)

### 5. Intellectual Property (IP)

Strong proprietary designs and process expertise

Robust IP protection and continuous innovation

### 6. Secrecy & Confidentiality

Proven track record of handling sensitive client data

Strict confidentiality protocols and NDAs in place

### 7. Internal Competition

Unique product differentiation minimizes internal overlap

Collaborative approach with other product lines

### 8. Strategic Partnership Approach

Transparent, collaborative, and long-term relationship focus

### 9. Equal Preference

Transparent and fair supplier engagement

Performance-driven evaluations and partnerships

## Strategic Partnership Approach for OEM Collaboration

- ❑ Accumax prioritizes collaborative OEM and white-label partnerships rather than promoting its own branded consumables.
- ❑ We have dedicated resources and infrastructure aligned to OEM scalability.
- ❑ Priority support is provided for co-branding, customization, and private-labeling.
- ❑ Value-Driven Business Relationships : Long-term partnerships built on trust, transparency, and alignment
- ❑ We design & manufacture Tailored solutions to meet partners' market-specific needs

This approach ensures:

- Zero channel conflict with your existing brand strategy
- A trusted backend manufacturing alliance without competitive overlap
- It offers you a direct control on pricing and distribution

Complete focus on your market success – OUR SUCCESS IS LINKED TO YOURS

Gandhinagar SEZ Facility,  
India



## Medha Facility, India



## Gamma Facility, India



AHN-CAPP, Germany



## World Class - Product Development and Manufacturing Facilities

### Gujarat , India

3 manufacturing units and 1 Gamma facility



- 46 servo hydraulic injection moulding machines
- 18 Electrical injection moulding machines
- 5 Extrusion blow moulding machine
- 2 Injection blow moulding machines
- 2 Injection stretch blow moulding machine
- 2 Hot foil stamping machines
- 3 CNC & VMC Machines
- 4 Dry offset printing & 3 Laser engraving machines
- 4 Robotics assembly machine
- Vacuum forming Machine.
- Automatic Vision inspection Machine.

### Nordhausen, Germany

1 Manufacturing Unit



- 9 Electrical Injection Moulding Machines of 100- 300 T
- 9 Medical-grade injection moulding machines of 100 T (1 with laminar airflow box)
- 19 Robotics assembly machine
- Automatic offset printing & capping machine
- Barcode machine printing for tubes

## PRODUCTION FACILITY AREA

To fulfil our commitment, we operate at **5 advanced** manufacturing units globally with below area strength:

Sr.No.	Facility Description	Area in SQ.FT
1	Total area of 5 manufacturing units globally	720,000
2	Clean Room Area (Class 7, Class 8) Unit II SEZ & III Medha	35,000
3	AHN Germany Clean room area (Class 7& 8)	20,000
4	Controlled Area (10 micron) Unit II SEZ & III Medha	26,000
5	Gamma sterilization facility	41,000
6	Additional area available for Expansion	100,000
7	Product Research & Application Lab area	3,500

Technologies	Products
Injection Moulding	Micro Pipettes, Universal tips, Centrifuge tubes, Micro Centrifuge tubes, PCR plastic consumables, Cryo vials, Robotic Tips, Petri Dishes, Sample collection vials
Blow moulding	Transfer pipette
Injection Blow Moulding	Reagent Bottles, System Pack Bottles, 250ml & 500ml Centrifuge bottles
Injection Stretch Blow Moulding	Media Bottles, Erlenmeyer Flasks, Roller bottles
Extrusion Moulding	Serological Pipettes
EBM – Continuous Extrusion Blow Moulding	Carboys and Jerrycan with capacity up to 4 liters
Accu. Head Machine – Accumulator Head Extrusion Blow Moulding.	Carboys and Jerrycan with capacity from 5 liters to 50 liters

Accumax products are manufactured in ISO 9001 and ISO 11137 registered & audited facility and are subjected to rigorous testing procedure to meet performance standard. A stringent batchwise QA process is carried out in-house to validate the following Quality standards:

- DNase/RNase free
- Free of endotoxin contamination
- Free of human DNA
- Free of Protease activity
- Free of heavy metal

Accumax sterilisation method assures sterility to level  $10^{-6}$  through quarterly bioburden and sterility validation studies performed to ANSI/AAMI/ISO 11127 standard.

## Cleanroom Infrastructure

In accordance with the ISO 14644 standards, ISO Class 7 cleanrooms represent a highly controlled environment that is engineered to maintain specific cleanliness values. The enclosed system encompasses ceiling-mounted Air Handling Units (AHUs) and fan filter units (FFUs) that generate a continuous supply of HEPA or ULPA-filtered air.



# CERTIFICATIONS

## ISO 13485

We understand that Safety and quality are non-negotiable in the medical devices industry, that's why we are ISO 13485 certified.



ISO 9001: 2015 demonstrates Accumax' ability to consistently provide products and services that meet customer and applicable statutory / regulatory requirements



# In House Testing Laboratories

# ACCUMAX

## Validation & Testing Laboratory



**First in India** to have in-house capabilities to perform all critical and essential tests

Most advance product validation and testing lab having latest testing equipment backed by highly experienced Lab personal, product management and QC team

## Quality Control Laboratory



Our fully equipped Application Laboratory boasts an impressive array of instruments, complemented with experience and knowledgeable team, for thorough evaluation and validation across diverse assays such as Molecular Biology, Cell culture and Microbiology.

This lab is the cornerstone of our unwavering commitment to providing robust application support for every product and at every stage of its lifecycle. Our lab plays a crucial role in **Quality checks**, ensuring that we deliver products that embody these principles and that every instrument reflects the highest standards of craftsmanship

## Microbiology Laboratory



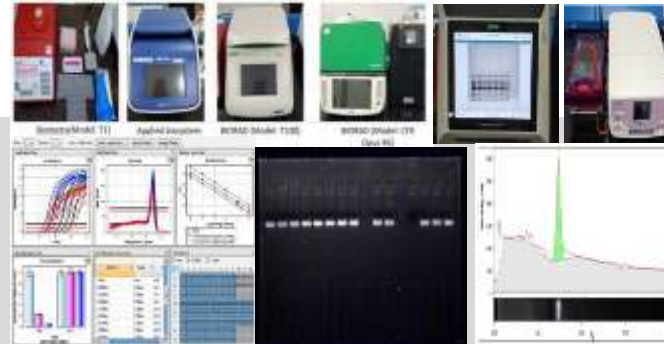
Colony count      Sterility Test      Custom LAF

Fully equipped microbiology laboratory with **custom made for bio assembly** analysis with high trained microbiologist for microbiology contamination analysis

### Capability:

- Sterility validation (Sal  $10^{-6}$ )
- Routine Bioburden
- Clean room viable air monitoring

## Molecular Biology Laboratory



qPCR

RNase Analysis

RNA Relative Quant.

State of the art molecular biology laboratory with array of PCR machines including Real Time (BIORAD Model: CFX Opus 96)

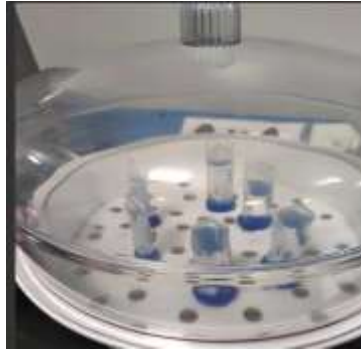
### Capability:

- DNA and RNA free study (<2pg)
- RNase ( $10^{-9}$ ) & DNase ( $10^{-6}$ ) Kunitz sensitivity level
- PCR inhibitory < 2CT

## Testing Capabilities



High Resolution  
Microscopy



Leak Testing



Low Temperature Stress  
Testing



Humidity/Accelerated  
Ageing



Stress Testing



Wittgas Leak test



Cell Culture

## ELISA/ATP & Spectrophotometry



Hygiene  
Ensure Touch



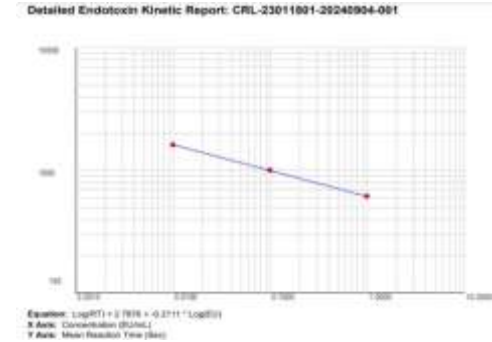
Thermo  
Sky High Scan IT



Charles River  
High Sensitive KCA  
Endotoxin

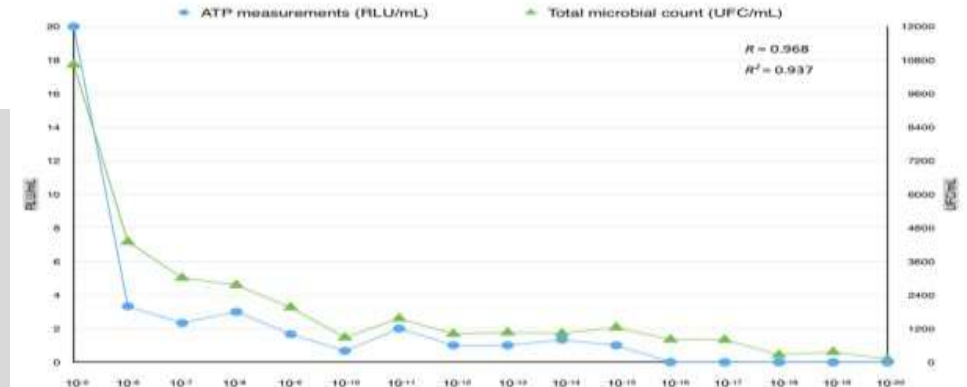
### Capability:

- Endotoxin validated up to <math><0.005\text{EU/ml}</math>
- ATP sensitivity at  $10^{-16}$  moles.
- Colorimetric Assays



Lal Assay KCA Endotoxin

Sample Name		Associated Standard Set			
Accumax Endotoxin Kinetic Pyrate_2		875123751			
Sample ID: NA					
Sample Comments: NA					
Sample Lot Number: 000102481	Endotoxin Value: 40.000 EU/mL				
Station/Concentration: T1 10.0%	Substrate Level: 0.07500%	Status: <span style="color: green;">✓</span>			
EQ Criteria: -	Sample RV Limit: 10.00%	Status: <span style="color: green;">✓</span>			
Alert Limit: NA	Spike CV Limit: 10.00%	Status: <span style="color: green;">✓</span>			
Spike Concentration: 0.1 EU/mL	Spike Recovery Range: 90.00%	Status: <span style="color: green;">✓</span>			
Performed With: NA					
SAMPLE DATA					
Well	Reaction Time (Sec.)	CV%	Average Value	Substrate	
A5	1115.00	0.00%	40.000 EU/mL	30	
A6	1115.00	0.00%	40.000 EU/mL	30	
SPICE DATA					
Well	Reaction Time (Sec.)	CV%	Spike Value	Average Value	Spike Recovery %
A5	1011.43	0.00%	0.1000 EU/mL	0.0000 EU/mL	0%
A6	989.00	0.00%	0.1000 EU/mL	0.0000 EU/mL	0%



High Sensitivity ATP Assay

# Gamma Radiation capability

# ACCUMAX

Exclusive **Category IV Gamma Irradiation Facility**—a first-of-its-kind in the country, specially designed for the advanced radiation processing of non-agricultural, non-food products, with a dedicated focus on medical implants and disposables.



### UNIQUE Comprehensive Testing Capabilities

We conduct:

- Dose verification
- Dose mapping studies

*All these tests are done at our IN-HOUSE LAB to ensure the highest standards of product safety & quality*



## Infrastructure



Total land area: 8000sq Mtr  
Built up area: 3800sq Mtr  
Expansion scope: 4200sq Mtr

Maximum source strength:  
3 million curies (111 PBq) of Cobalt-60

Capable of handling: High volumes with efficiency we have 62 Tod boxes (dwell position). Dedicated constant track line and additional hanging track (Auxiliary conveyor) line for dose verification

### ISO 13485:2016

Ensures compliance with strict medical device sterilization standards. Guarantees safety, quality, and performance for medical-grade products.

### ISO 9001:2015

Demonstrates consistent quality and efficiency in sterilization processes. Meets global quality standards across industries.



## Quality Control

### Certified Dose Documentation

Dose certificates are provided for every sterilization run, tailored to meet the requirements of sensitive and critical applications.

### Customized Dose Mapping

Our facility offers ISO 11137-compliant dose mapping services, adaptable to a variety of customized box types, ensuring precise and reliable sterilization for diverse packaging needs.

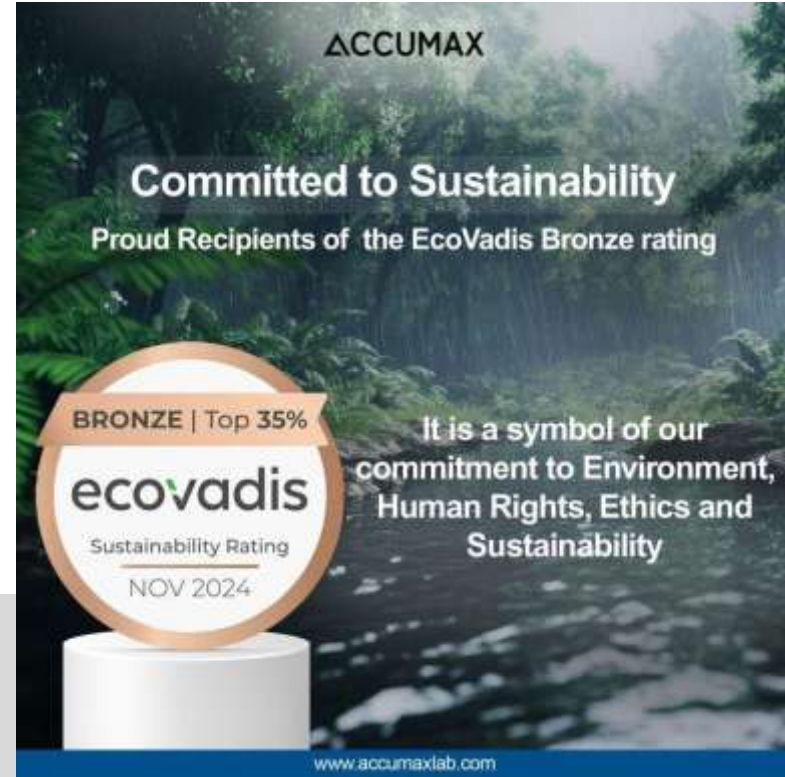


# Pioneering Sustainability and Safety in Manufacturing!

# ACCUMAX

We're excited to announce that Accumax Lab Devices has achieved the prestigious ISO 14001:2015 and ISO 45001:2018 certifications!

- ✓ ISO 14001:2015: Reflects our commitment to environmental responsibility.
- ✓ ISO 45001:2018: Highlights our dedication to workplace health and safety.



Join us as we continue to lead with integrity, innovation, and care for the planet! 

## Sustainability

As an organization that highly values environment conservation and sustainability, Accumax is one of the largest manufacturers of lab equipment and consumables that are sustainable and environment friendly.



Energy-efficient technology



50% of the power used in our manufacturing plant comes from renewable sources



We Aim to move forward towards using 100% RoHS Compliant parts



100% electrical injection moulding saving 40% electricity



90% products manufactured with zero waste



## Manufacturing Advantages

-  3 Manufacturing units in India and 1 in Germany
-  Fully equipped Application Laboratory for product evaluation, validation & quality checks
-  Comprehensive Technical Documentation
-  Full Lot Traceability

-  Inhouse Gamma sterilization facility
-  Clean Room Area (Class 7, Class 8 & Class 9) - 9800 m<sup>2</sup>
-  Uncompromising Quality Control
-  Scalability and Compatibility

## In-house Testing Laboratory Advantage - ISO 17025 (NABL) accreditation in progress

Through this facility, we can support our customers with a wide range of testing and validation services in alignment with international standards including:

- **ISO 11137-2** – Establishing the sterilization dose
- **ISO 11737-1** – Bioburden testing
- **ISO 11137-2 (Table 9)** – Verification dose
- **ISO 11737-2** – Sterility testing
- **ISO 11137-3** – Dose mapping
- **ASTM D4169** – Performance testing of shipping containers & systems (transport validation)
- **ASTM F1980** – Accelerated aging of sterile barrier systems & medical devices

# Thank You

## Get in touch with us!

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