



**JOHARI**<sup>®</sup>  
medtech

Electronic Medical Device  
Manufacturer

# About Johari

**Founded over 40 years ago in India,** Johari Digital was born from a desire to make lives better. We made a promising start in 1979 and have come a long way.

India's 'Blue City' Jodhpur is famous for its mesmerizing landscapes, towering forts and warm hospitality. In the midst of this vibrant culture, however, also lies a throbbing entrepreneurial spirit. Johari is a proud behemoth born of this legacy.



# Brand Belief

## Mission

We pursue manufacturing excellence to produce state of the art medical devices that are precision engineered for achieving: '0' defect / '0' effect (no carbon footprint).

## Vision

We aspire to be the global leader in healthcare technologies and most trusted partner for medical device development and manufacturing.

**Adding creativity and innovations**



# Quick Facts

- MDSAP Certified
- USFDA GMP Inspected Facility
- ISO13485:2016 Certified
- FDA 510K Cleared Product Line
- CE Certified Products

India's leading  
world class  
electronic medical  
device manufacturer

**JOHARI**<sup>®</sup>  
medtech

**100,000**

Products Installed  
Worldwide

**500+**

Active Customers  
Worldwide

**145**

Commercialized  
Products

Johari meets the ISO standards relevant to the product, as well as cGMP requirements

## MDSAP



Medical Device Single Audit Program (MDSAP) is one of the toughest international certificates which is awarded only after a very stringent audit process. This enables our company to export the products to **Australia, Canada, Brazil and Japan besides USA**, and existing clients in other countries.

## ISO 13485:2016



ISO 13485:2016 specifies requirements for a **Quality Management System**. This certificate confirms that our company follows standard processes of **medical devices design and development, production, storage and distribution, installation, or servicing** provided by ISO 13485.

## US FDA (510K)



The US FDA is responsible for protecting the public health by ensuring the safety, efficacy, of medical devices; in USA. We have proved our medical devices according to quality standards of FDA. it means devices are **safe to known risks** and **effective for the intended use**.



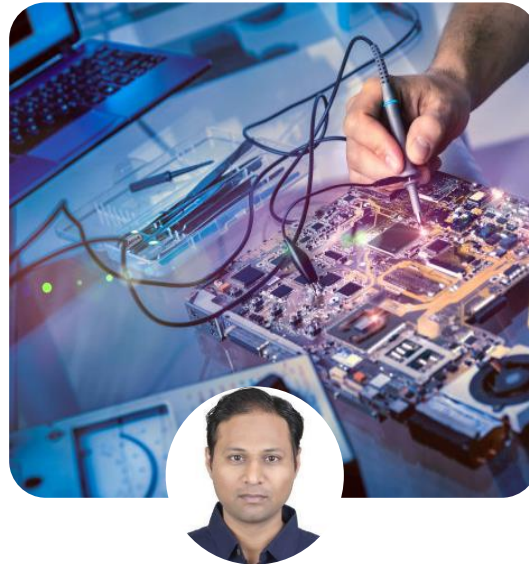
## Technology Development In Europe



**Dusan Todovic**  
Chief Technical Officer

Leading Europe R&D Team  
with 20+ Years of  
Experience

## Product Engineering In India



**Dilkash Mohammed**  
Business Development  
(Technology)

B.E Electronics, PMP, 6  $\sigma$   
/Belt, Over 25+ Years of  
Experience into Medical  
Devices

## Manufacturing In India



**Preetesh Bhandari**  
COO

B. Tech, Mechanical  
with 15+ Years of  
Experience in  
Operations across IT  
and Manufacturing

## Sales & Marketing Operations In USA



**Tejas Shah**  
Director,  
International Sales, USA

15+ years' success leading  
growth and development in  
Medical Devices Product  
Design & Manufacturing





# Services & Products

# End-to-end Solution Provider



## OEM

Full Turn Key (**FTK**), and New Product Introduction (**NPI**) from Design, Engineering and Production Services for **Therapeutic Medical Devices**



## Contract Manufacturing

World Class Manufacturing facility for **Medical Electronics** and Healthcare Device





# OEM

We have expertise in Manufacturing of Non Invasive Therapeutic Medical and Healthcare Devices.



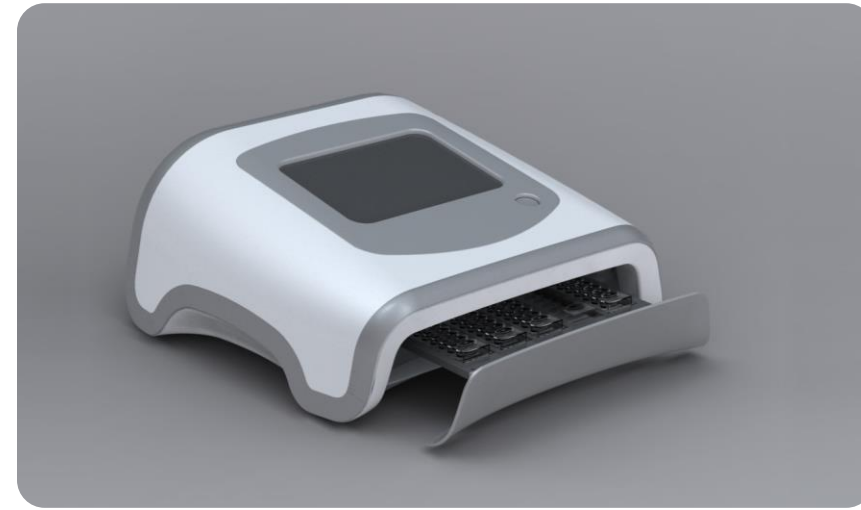
# Integrating Excellence for OEMs

A Canvas of in-house capabilities, Design and Development



## R&D - (Serbia, Europe)

- World class technology development center in Europe
- Ability to quickly turn concepts into detailed product design
- 3D printing and quick prototype
- Technology research & product concepts



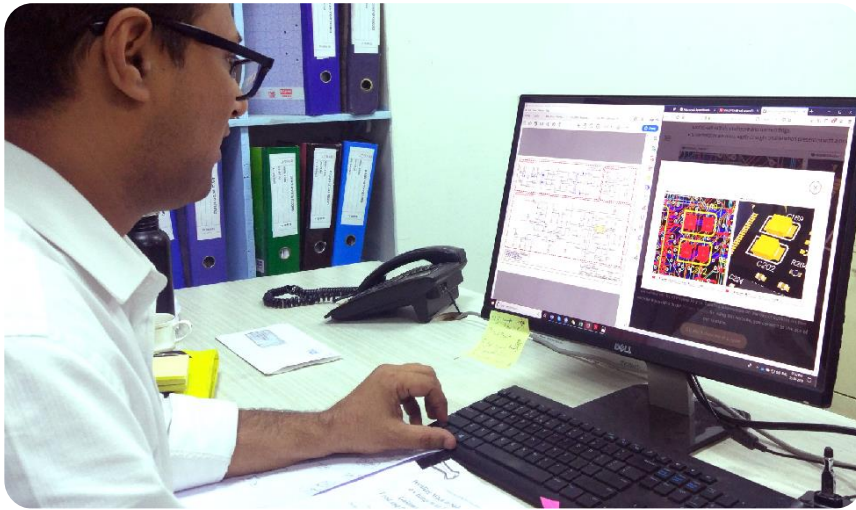
## Industrial Design

- Brainstorming and creative sessions
- Ideas & conceptualizing
- CAD design and drafting
- Molds and tools design
- Exploring colors, materials & finishes



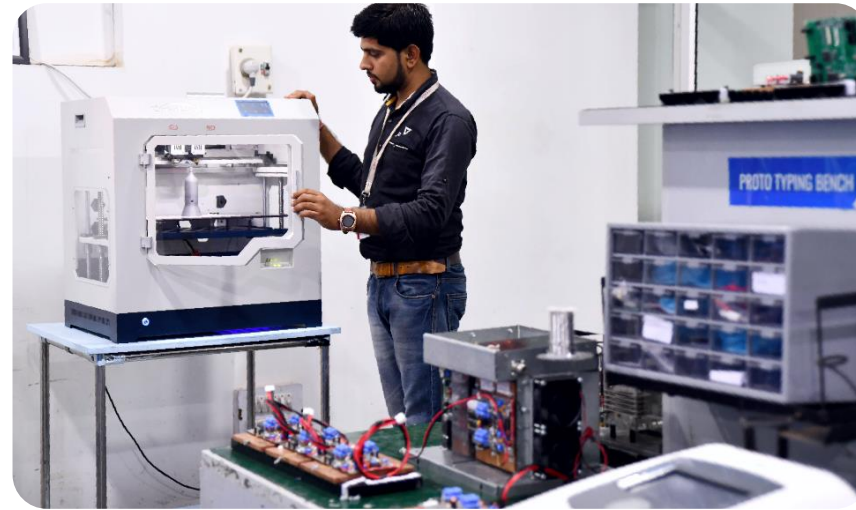
# Integrating Excellence for OEMs

A Canvas of in-house capabilities of **Transfer to Manufacturing**



## Electronics PCB and Software Design

- Ability to quickly turn concepts into detailed product design
- Electronic and electrical circuits boards design
- Printed Circuit Boards (PCB) layout and design
- Broad prototype preparation
- Embedded software and UI design



## Product Engineering (India)

- Mechanical part and tool development
- Enclosures and housing
- Cable and wire harness, clipping and stripping.
- Electrical motors, heat sink manufacturing
- EMI/RFI shielding



# Integrating Excellence for OEMs

A Canvas of in-house capabilities Manufacturing



## Electronics Manufacturing

- Capacity of 1000+ PCB production per day
- Surface Mount Technology (SMT), Ball Grid Array (BGA)
- Through Hole (PTH) Assemblies; RoHS compliant assembly
- Functional & performance testing, Circuit board assembly
- Class 100,000 clean room electronics manufacturing



## State of the Art System Integration

- Box Build: Injection molding, casting, sheet metal
- Mechanical parts manufacturing
- Electrical & mechanical assembly
- Packaging assembly & hardware installation



# Integrating Excellence for OEMs

A Canvas of in-house capabilities Regulatory and Quality Assurance and Supply Chain Management



## Quality Assurance

- Quality Control (Raw Material, Final Product)
- Validation and verification
- Product functional & performance testing
- Change control management
- Labeling control & device history record



## Supply Chain Management

- Pre dispatch inspection (PDI)
- Standard packing and packaging
- Inspection and verifications
- Logistic facility to reach globally



# OEM - Service

## Market Focus



North  
America

India



# Case Study - DNA, RNA Extraction Homogenizer – Life Science

Initiated in 2005 with a U.S. based global leader, after design and development, production started in 2006 and till today we are continuously serving for their global distribution.



OBJECTIVES	SOLUTIONS	IMPACT
<ul style="list-style-type: none"> <li>• Redesign of patented equipment</li> <li>• Enhance performance usability</li> <li>• Optimise cost</li> </ul>	<p>Re-imagined the product for improved performance via</p> <ul style="list-style-type: none"> <li>• Industrial Design</li> <li>• Aluminum Cast &amp; Medical Grade ABS Injection Molded Housing</li> <li>• Re-Engineering</li> <li>• Product life cycle</li> <li>• Certification</li> <li>• Packaging</li> </ul>	<p>Set a benchmark of its aesthetic design, usability and performance with reduced cost.</p>



# Contract Manufacturing

High Quality and Cost Optimized Medical  
Electronics and Medical Device Contract  
Manufacturing Services





# Contract Manufacturing

Start From Product Engineering to Transfer to Manufacturing



## We add Values

We create products to perform flawlessly, look attractive, and fit perfectly into your users' hands and lives. Each prototype then goes through



## Upgrade Existing Product

We offer services that involves not only manufacturing excellence but also performing laboratory and consumer tests to ensure the product meets the standards established for it in the protocol, safety, efficacy and futuristic setup.



## New Process Development (NPD)

Design for manufacture (DFM) review and pre-process failure mode effect analysis (Pre-PFMEA), which provide a clear process flow diagram (PFD), assembly steps, critical stages and identify test processes. This preliminary stage removes major barriers at the initial mass production stage.



# Electronics Manufacturing Capabilities



- Capacity of 1000+ PCB production per day
- Surface Mount Technology (SMT), Ball Grid Array (BGA)
- Through Hole (PTH) Assemblies; RoHS compliant assembly

- Functional & performance testing, Circuit board assembly
- Class 100,000 Clean Room Electronics Manufacturing



# Contract Manufacturing

## Market Focus – Global



- USA
- Canada
- Brazil
- Australia
- Japan
- Germany
- India

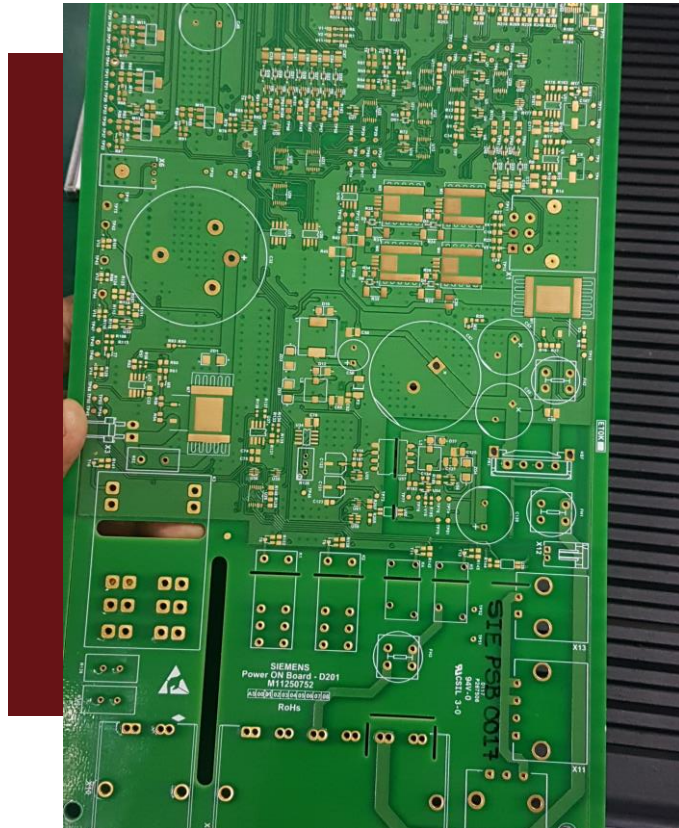




# Case Studies

# Case Study – PCB Manufacturing for Siemens

Global supplier of imaging and medical devices



PCB Manufacturing

**SIEMENS**  
*Ingenuity for life*



# Case Study - Body Contouring Device

Global supplier of world class medical aesthetic systems.



OBJECTIVES	SOLUTIONS	IMPACT
<ul style="list-style-type: none"><li>• Develop a new product for the global market based on our established technology.</li><li>• Achieve excellence in design while ensuring high performance.</li></ul>	<ul style="list-style-type: none"><li>• End-to-end design and manufacturing of product.</li><li>• Global regulatory compliance (USFDA 510K &amp; CE).</li></ul>	<ul style="list-style-type: none"><li>• Expansion of geographical market areas by client.</li><li>• Enhanced performance and results.</li></ul>



# Case Study - Bio-chemistry - Microscope with Artificial Intelligence and Deep Learning

Indian start-up which builds intelligent screening solutions to aid diagnosis.



OBJECTIVES	SOLUTIONS	IMPACT
<ul style="list-style-type: none"><li>• Develop a digital microscope based on raw technology with AI and cloud-computing built-in.</li><li>• Take the microscope from concept to manufacturing which involves 3-dimensional imaging (x,y,z movement).</li></ul>	<ul style="list-style-type: none"><li>• Industrial design re-engineered to reduce processing TACT time and footprint of economical liquid injection moulding (low volume production).</li></ul>	<ul style="list-style-type: none"><li>• Dramatically improved speed, accuracy and consistency of numerous screening processes.</li><li>• Improved quality of healthcare delivery.</li></ul>



# Case Study - Medical Waste Disinfectant Equipment

One of the fastest growing Indian medical equipment MSME & OEM importer.



OBJECTIVES	SOLUTIONS	IMPACT
<ul style="list-style-type: none"><li>• To build a state-of-the-art device using antiquated technology while achieving manufacturing excellence.</li><li>• Build a solution that is scalable to a higher capacity equipment (modular design).</li></ul>	<ul style="list-style-type: none"><li>• User friendly design and improved aesthetics of product.</li><li>• Cost optimization</li><li>• Multiple models developed</li></ul>	<ul style="list-style-type: none"><li>• Now a mandatory device for hospitals.</li><li>• Overcame a traditional, expensive and long process cycle.</li><li>• Multiple applications developed.</li></ul>





# US FDA Cleared Therapeutic Product Line



Pain Relief and  
Physical Medicine



Medical Aesthetics  
Beauty & Skin Care



Wellness and Stress  
Management



Hearing Aids



# Future Technologies



We are constantly working on new technologies development and future medical devices such as:

- AI and VR based medical devices
- Voice Recognized
- Cloud Connected
- Wireless Medical Applications
- Smart Medical Devices



# Core Values



## Integrity

Adherence to ethical, moral principles and law of the land.



## Respect

Towards elders, seniors; everything worthy in the material, spiritual and the intellectual world; towards system, processes and values



## Excellence through teamwork

Persistence and striving towards perfection in all our actions, products and services



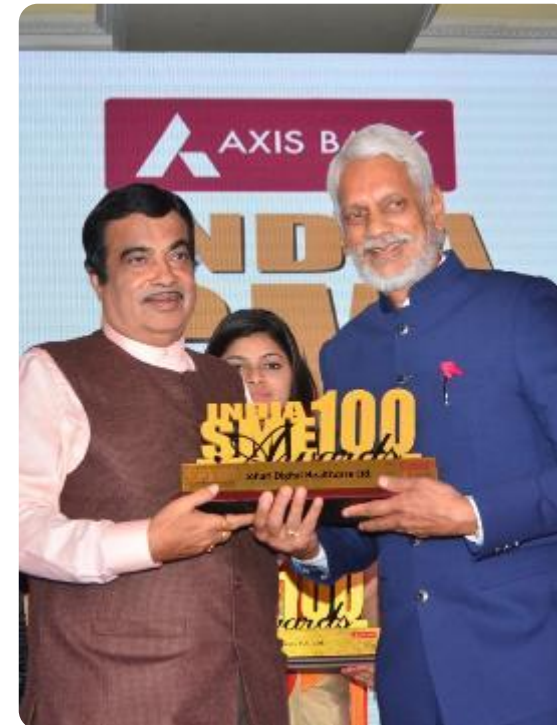
## Humility

Absence of arrogance, open mind towards absorbing new ideas innovations and learning



# Awards and Recognition

- India SME 100 Awards 2019
- Udyog Ratna Award 2018 - Govt. Of Rajasthan
- Best Anchor - Healthcare & Pharma - 2019 – Dun & Bradstreet
- Best MSE Award - SBBJ Rajasthan - 2011
- Best Woman Empowerment Award - Bharat Petroleum - 2009
- Best Woman Entrepreneurship Award – 2012 Entrepreneurship Development Cell, CGI, Jodhpur
- Excellency Award - Times Group 2011
- Woman Pride Award – ICSI - 2010



# Our Clientele

## Overseas Corporate Clientele



## Corporate Healthcare Hospitals in India



# Testimonials



“Johari Digital’s unbeatable service and system prototype won my trust. Their experience and expertise proves to be a dependable partner. I have been impressed with their commitment to manufacturing excellence”

**Mr. Huanjie Wang**  
CEO, MP Biomedicals  
USA



“I am very happy with our experience so far. We have had very few issues. When we have had issues, you have been very responsive to help fix them.”

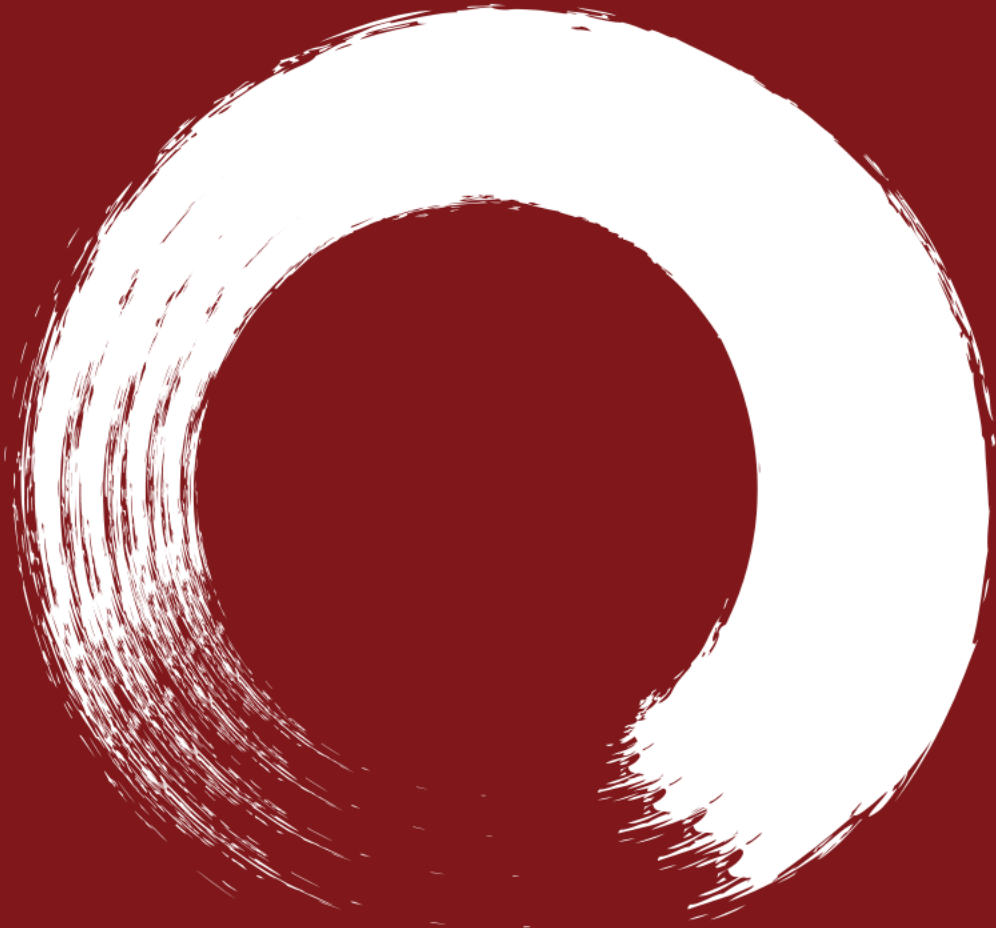
**Mr. Garrett Salpeter**  
Founder of NeuFit  
USA



“I am writing to thank you for the quality of service provided by your company. We sincerely appreciate your efficient, gracious service, the level of detail you have demonstrated on PCB development and assembly.”

**Ms. Tejaswee**  
Siemens Healthcare  
India





# Contact us

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R&D and design in Europe | Manufactured in India