



DANPREL ENGINEERING AUTOMATION PRIVATE LIMITED



www.danprel.com



info@danprel.com



+91 4344 611 010



New No: 1A-5 (Old No: 444/2
B1A), Matham, Kothur Road,
Hosur – 635109, Tamil Nadu,
India

COMPANY PROFILE

April 2025

ABOUT US

DANPREL offers automation technology and scale to advance factory automation solutions for the world's leading manufacturers, by recognising industry requirements and committing to driving innovations that accelerate industrial transformation.

COMMENCEMENT

2021

PROJECTS

100+

EMPLOYEES

100+

LOCATION

- ❖ Headquarters: Hosur, Tamil Nadu, India
- ❖ Regional HQs: Belgium & Dubai

OPERATING AREA IN INDIA

UNIT 1

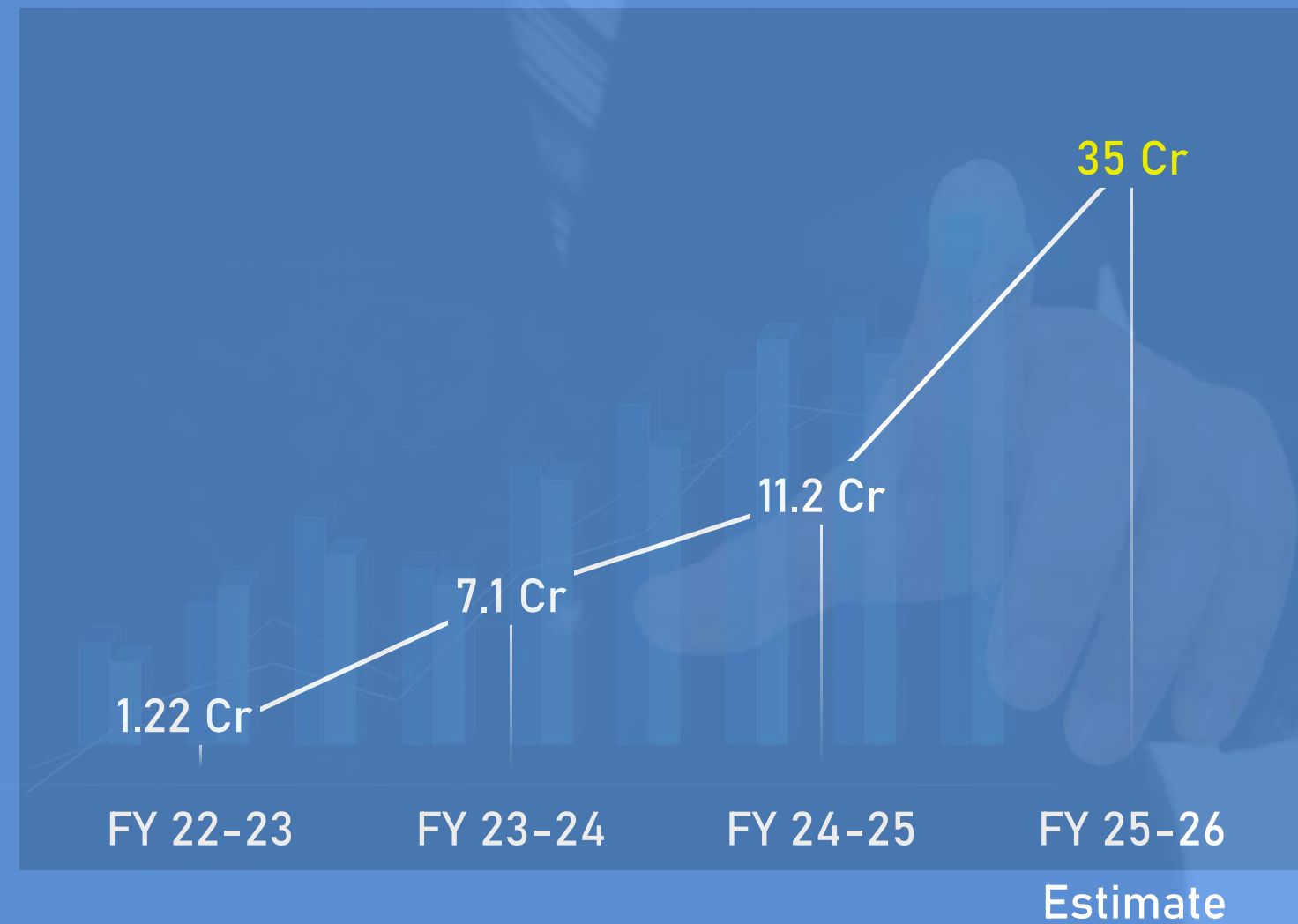
- ❖ Shop Floor: 12000 Sq. ft
- ❖ Tool Room: 1500 Sq. ft

UNIT 2

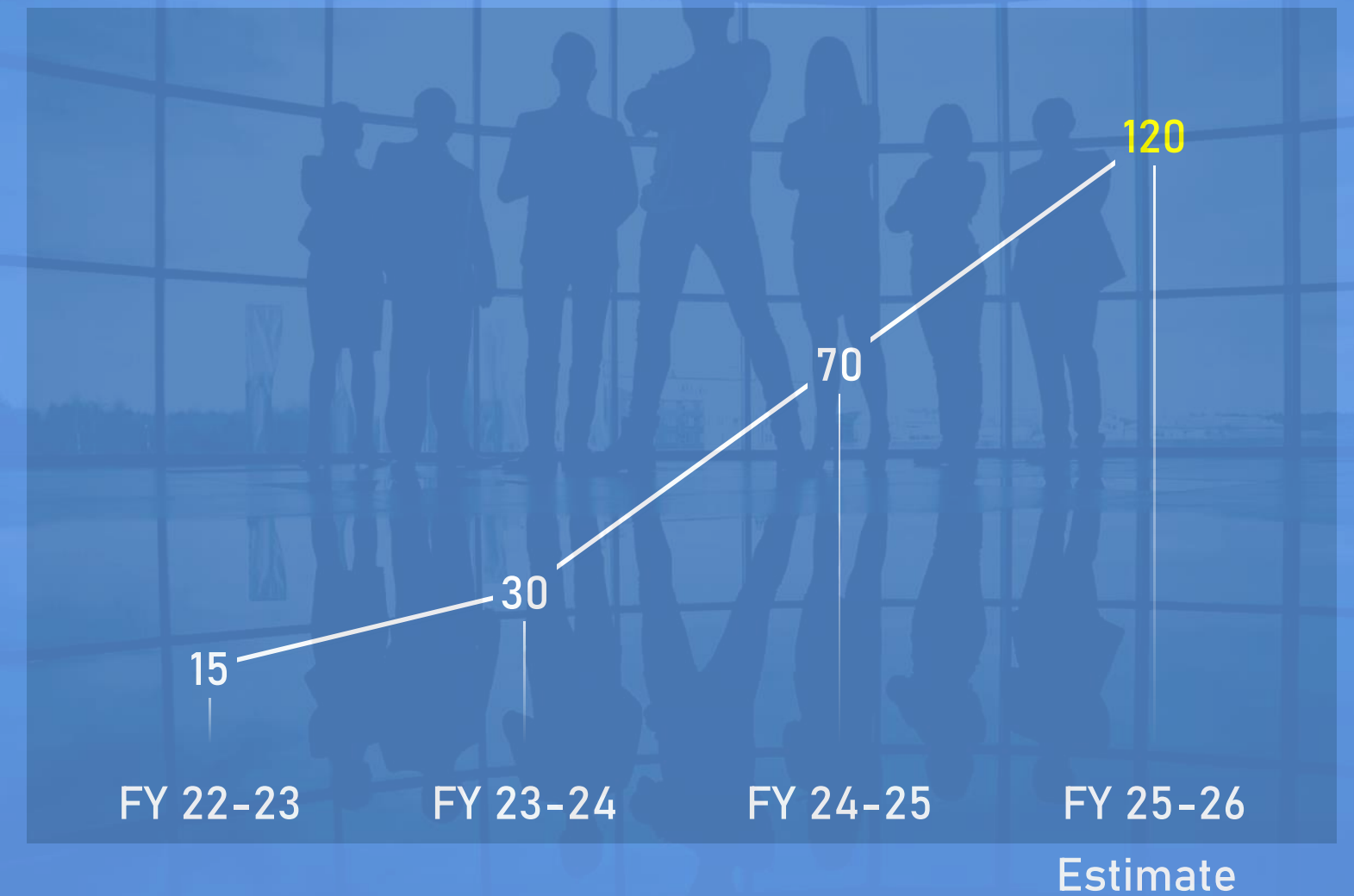
- ❖ Shop Floor: 6500 Sq. ft

ORGANISATION GROWTH

REVENUE



MAN POWER



ACCREDITATION




www.iqglobal.com

Certificate of Compliance
INTEGRATED QUALITY CERTIFICATION PRIVATE LIMITED
hereby certifies that the Quality Management Systems of

Danprel Engineering Automation Private Limited

444/2 Kothur Road,
Matham, Hosur 635109.



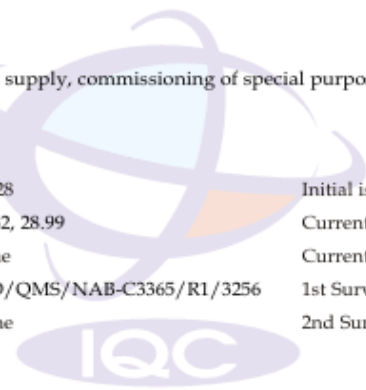
DANPREL
DANPREL ENGINEERING
AUTOMATION PVT LTD

has been assessed and conforms to the
Quality Management Systems
ISO 9001:2015



Scope: Design, manufacture, supply, commissioning of special purpose machines and jigs & fixtures.

Division	: 25, 28	Initial issue date	: 21.07.2023
Class	: 25.62, 28.99	Current issue date	: 07.06.2024
Process(es) not applicable	: None	Current expiry date	: 20.07.2026
Certificate number	: IND/QMS/NAB-C3365/R1/3256	1st Surveillance due	: 20.07.2024
Attachment(s)	: None	2nd Surveillance due	: 20.07.2025



Suma Shankar
Suma Shankar
Director

Certificate of compliance has an expiry period of 3 years from the current certification cycle start date but shall be considered as expired if the surveillance audit programme indicated in this certificate of compliance is not implemented to maintain confidence that the certified management system continues to fulfil requirements unless otherwise supported by a letter of continued compliance issued by the registered office of Integrated Quality Certification Pvt. Ltd. Certificate of compliance shall be updated in website/registry as suspended and/or withdrawn if the surveillance programme prior to the due date indicated above is not coordinated and implemented. Written information on any significant organizational changes with impact on the certificate of compliance shall be communicated to Integrated Quality Certification Pvt. Ltd prior to the planned audit schedule.

Corporate Office : Platinum City, G/13/03, Site # 02, Next to CMTL, HMT Road, Yeshwanthpur Post, Bangalore - 560 022, India.
Tel : +91(80) 41172732, 41277353, 41280347; Email : iqccorporate@iqglobal.com Website : www.iqglobal.com
CN : LT4140KA2003PTC031831
Please visit www.iqglobal.com to verify the authenticity and validity of this certificate of compliance
QF-12A Rev 02 date 06.04.2024

SYSTEM PARTNER



Official
System
Partner



Certificate 2024
Danprel Engineering Automation Pvt. Ltd.



Augsburg, September 2024



Alan Fam
Chief Regional Officer
APec



Erich Schober
Chief Sales Officer
KUKA Deutschland GmbH



BUSINESS VERTICALS

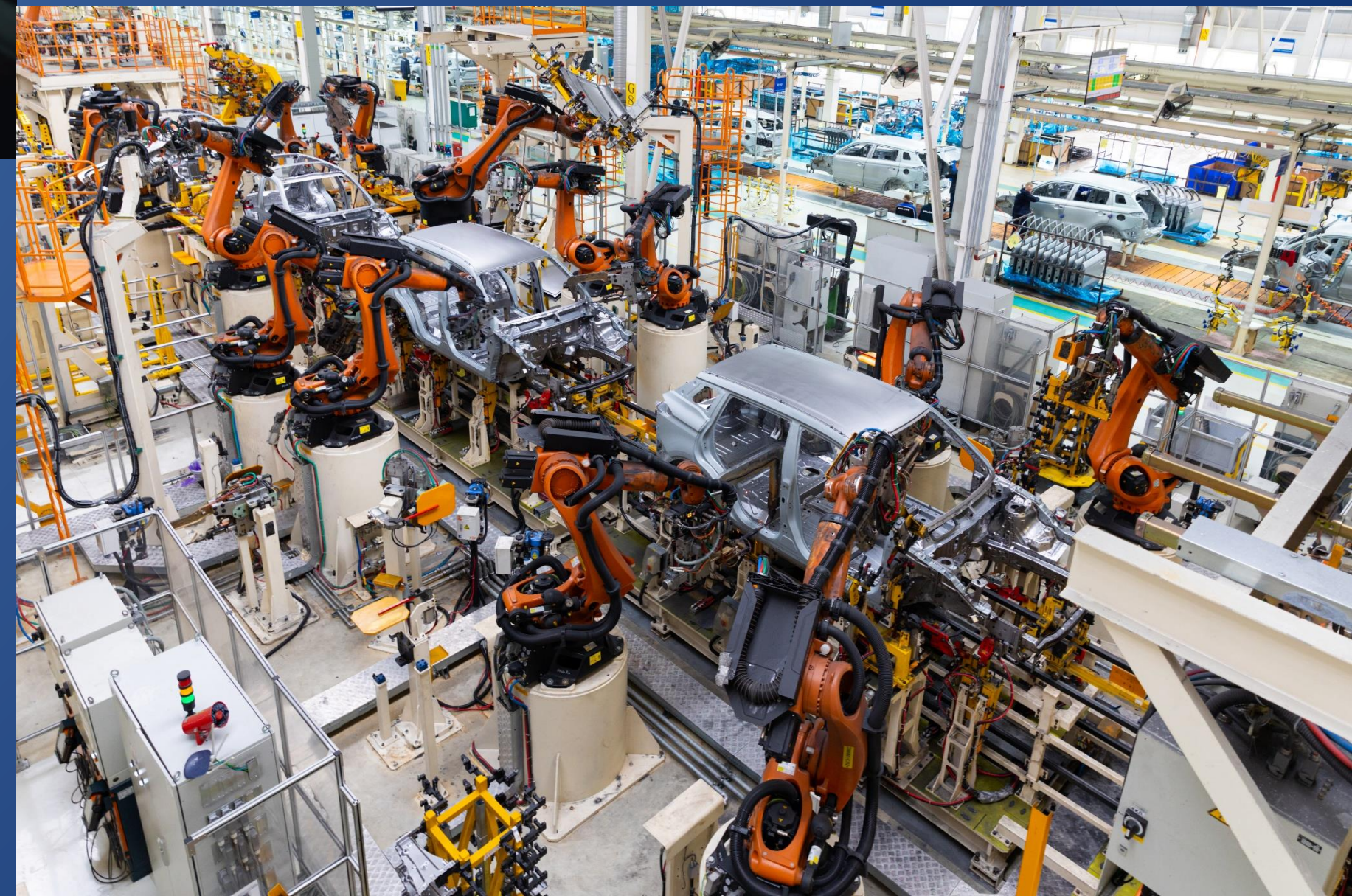
01

INDUSTRIAL AUTOMATION

- ✓ Turnkey Automation Solutions
- ✓ Robot & Cobot Integration
- ✓ Process Optimization
- ✓ Testing & Inspection Machines

BUSINESS SECTORS

- ✓ Automotive
- ✓ Electronics & Electricals
- ✓ Engineering
- ✓ Consumer Goods & Luxury
- ✓ Energy & Emerging Technologies
- ✓ Life Sciences





BUSINESS VERTICALS

02

COMPONENT MANUFACTURING

- ✓ VMC & CNC Machined Components
- ✓ Precision Jigs & Fixtures
- ✓ Sub-Assemblies

SERVICE PROVIDERS

- ✓ Installation & Commissioning
- ✓ Maintenance & Support
- ✓ Upgrades & Retrofitting
- ✓ PLC Programming
- ✓ 2D Drawing Conversion

03



TECHNICAL CAPABILITIES



01 INDIVIDUAL PROCESS AUTOMATION

WELDING

- Laser
- TIG/MIG
- Resistance
- Ultrasonic
- Heat stacking

SCREWING

- Bowl feeder with singulation pick & place

PRESSING

- Pneumatic
- Hydro Pneumatic
- Hydraulic
- Servo system
- 2 & 4 Pillars
- C-Frame

DISPENSING

- Grease
- Loctite
- Thermal paste
- Adhesive
- Sealant

RIVETING

- Radial riveting
- Orbital riveting
- Customized

MARKING

- Laser
- Engraving
- Inkjet

TECHNICAL CAPABILITIES

02

MATERIAL MOVEMENT

- Conveyor System
- Pick & Place



03

AUTO TESTING & INSPECTION

- Leak Test
- Vision Inspection



05

ROBOTIC SYSTEM

- 6 – Axes
- SCARA
- DELTA
- Cartesian
- 7th Axis System



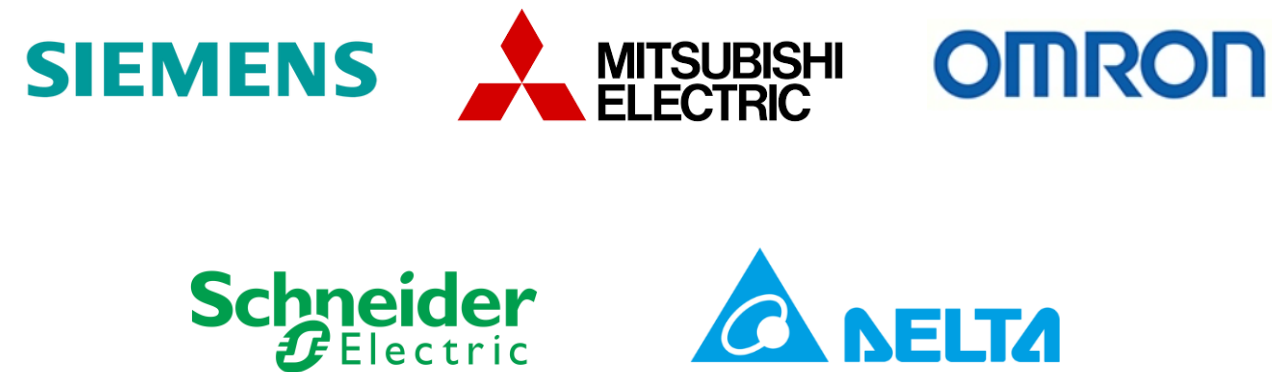
04

CONTROL SYSTEM

- PLC & HMI
- SCADA
- Labview
- Robot Programming



PROGRAMMABLE LOGIC CONTROLLER (PLC)



TECHNOLOGY EXPERTISE – CONTROL SYSTEM

ROBOT INTEGRATION

YASKAWA

KUKA

OMRON

FANUC
Robotics

ABB
ROBOTICS

MITSUBISHI
ELECTRIC

DELTA

HMI

MITSUBISHI
ELECTRIC

OMRON

SIEMENS

Pro-face™
by Schneider Electric

VISION SYSTEM



KEYENCE

COGNEX
vision

Baumer

SICK
Sensor Intelligence.

PNEUMATICS

FESTO



COMPONENT GRIPPING

ZIMMER
group

FESTO



TECHNOLOGY EXPERTISE – MECHANICAL SYSTEM

CONVEYOR SYSTEM



PRESSING AUTOMATION



MATERIAL FEEDING



TOOL ROOM CAPABILITIES

01

SKILLED MACHINIST

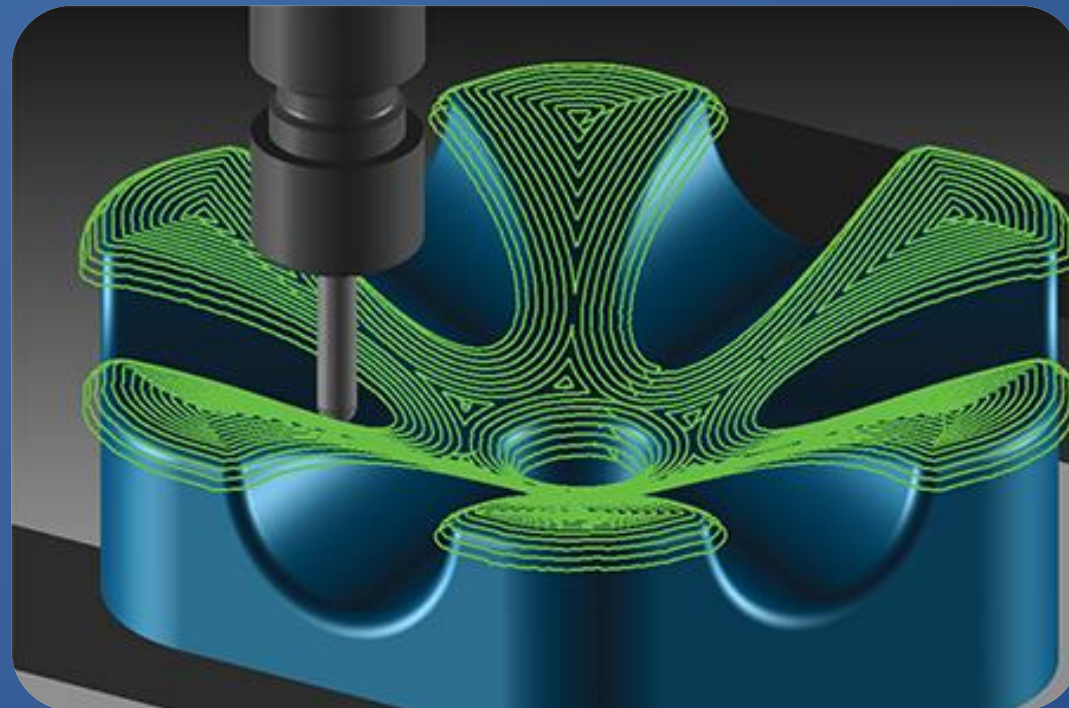
Team of skilled CNC programmers, setters, operators are capable of handling the most challenging machining tasks.



02

ADVANCED CNC MACHINES

Rapid production without compromising on quality, reducing lead times and increasing efficiency



03

HIGH MIX LOW VOLUME

Capability of handling large varieties of products in small and medium batch quantities

04

DIVERSE ARRAY OF MATERIAL

Capability to machine Ferrous materials, Non-ferrous materials including Aluminium, Brass alloys, Non Metals

05

ADVANCED METROLOGY EQUIPMENTS

Measuring instruments & gauges including coordinate measuring machines (CMM), to verify the accuracy and integrity of our machined parts

LIST OF MACHINERIES

CNC Turn-mill Center



Make	Goodway
Model	GLS - 2000LY
Overall Dimen.	L3250 mm X W1800 mm X H2100 mm
Accuracy	Positioning accuracy: $\pm 3\mu\text{m}$ Repeatability: $\pm 1\mu\text{m}$

Vertical Milling Machine



Make	Matsuura
Model	MC - 550VX
Overall Dimen.	L2200 mm X W2200 mm X H2700 mm
Accuracy	Positioning accuracy: $\pm 5\mu\text{m}$ Repeatability: $\pm 3\mu\text{m}$

Vertical Milling Machine



Make	AMS
Model	850V
Overall Dimen.	L2200MM X W2450 mm X
Accuracy	Positioning accuracy: $\pm 10\mu\text{m}$ Repeatability: $\pm 3\mu\text{m}$

LIST OF MACHINERIES

Conventional Milling Machine



Quantity	03
Make	ESTEAM, HIDA & LAGUN
Accuracy	Positioning accuracy: $\pm 20\mu\text{m}$ Repeatability: $\pm 10\mu\text{m}$

Conventional Lathe



Make	TONG IL
Model	TIPL 4
Overall Dimen.	L1500 mm X W700 mm X H1400 mm
Accuracy	Positioning accuracy: $\pm 20\mu\text{m}$ Repeatability: $\pm 10\mu\text{m}$

Surface Grinding Machine



Make	OKAMOTO
Model	450 MX
Flatness	$\pm 2\mu\text{m}$
Parallelism	$\pm 2\mu\text{m}$

LIST OF MACHINERIES

EDM



Make	ARD
Model	M50CA
Accuracy	± 5µm
Workpiece	Wide range of materials including tungsten carbide, steel alloys

CMM



Make	CHECKMASTER
Model	216-142
Measuring Range	300mmX200mmX200mm
Accuracy	± 3µm
Probe Make Model	Renishaw MH20

AUTOMATION PROJECTS

FESTO

NRV ASSEMBLY, TESTING & PACKING LINE



Location: Bangalore, India

Automation Level: Semi-Automatic Line (Pallet preparation manual)

Total no of station: 04

Key Processes:

- ✓ Robot loading & unloading
- ✓ Leak Testing
- ✓ Roll forming process (servo based)
- ✓ Auto sorting and packing

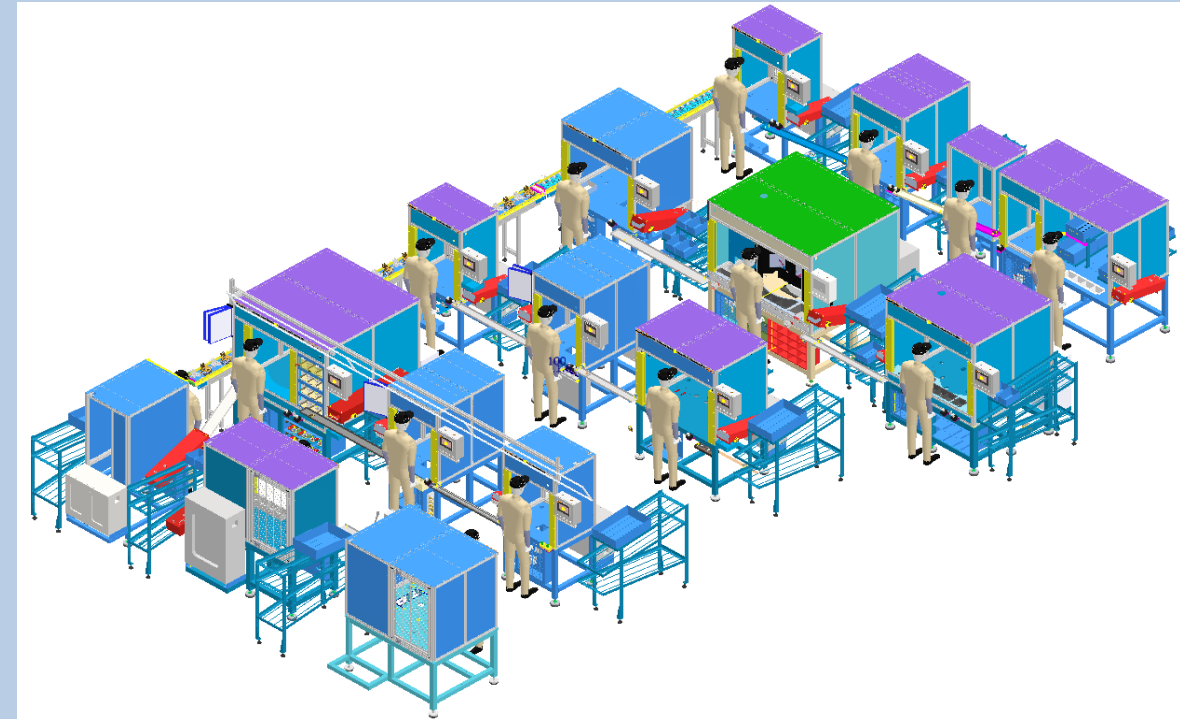
Cycle Time: 33.5 sec/part

Highlights:

- ✓ 9+ variants can be accommodated
- ✓ Single operator line

MAGNA

LATCH ASSEMBLY & TESTING LINE



Location: Pune, India

Automation Level: Semi-Automatic Line

Total no of station: 16

Key Processes:

- ✓ Automatic soldering
- ✓ Automatic riveting & inspection
- ✓ Robot greasing
- ✓ Child part presence detection

Cycle Time: 35 sec/part

Highlights:

- ✓ 3+ variants can be accommodated

AUTOMATION PROJECTS



VERTICAL COOLING TOWER



Location: Manesar, India

Automation Level: Semi-Automatic Machine

Machine Footprint: 8.5 meters tall, 3.6 meters length & 3 meters width

Total no of cradles: 24

Key Processes:

- ✓ Manual loading
- ✓ Chain sprocket mechanism powered by a high-torque motor and gearbox drives the setup smoothly rotating the cradles upwards through the cooling zones.
- ✓ As the cradle ascend, the industrial fans positioned at precise intervals blow high velocity air across the surface of each tank.
- ✓ Once the cooling cycle is complete, the fuel tanks are automatically moves to the unloading area through a mechanical cam arrangement.

AUTOMATION PROJECTS



AUTO SCREWING STATION



Location: Chennai, India

Automation Level: Fully automatic – rotary machine concept

Key Processes:

- ✓ Robot loading & unloading
- ✓ Bowl feeders for screw feeding
- ✓ Nut runner with feedback

Cycle Time: 18 sec/part

Highlights:

- ✓ 4+ variants can be accommodated
- ✓ Universal fixtures to accommodate all 4 variants without changeover



India Nippon Electricals Ltd

MULTI PIP FORMING MACHINE



Location: Hosur, India

Automation Level: Semi-automatic machine

Technologies:

- ✓ IV3 vision inspection
- ✓ Auto pip forming (10 ton hydraulic)
- ✓ LVDT & load cell
- ✓ Pneumatic clamping

Cycle Time: 56 sec/part to form 22 pips

Highlights:

- ✓ Any flywheel sizes can be accommodated
- ✓ Automatic 100% in-process dimensional measurement system
- ✓ Structural deflection with in $\pm 100 \mu\text{m}$ at 10 ton load capacity

AUTOMATION PROJECTS

FESTO

PNEUMATIC CYLINDER LEAK TESTING



Location: Bangalore, India

Automation Level: Semi-automatic machine

Key Processes:

- ✓ Magnetic ring presence
- ✓ Stroke measurement – Telescopic mechanism

Cycle Time: 2 mins – \varnothing 100mm bore

Highlights:

- ✓ Stroke length measurement from 5 mm to 3000 mm
- ✓ 500+ variants can be tested on the same machine



India Nippon Electricals Ltd

ARC WELDING MACHINE



Location: Pondicherry, India

Automation Level: Semi-automatic machine

Technologies:

- ✓ Servo indexing
- ✓ Automatic arc welding – XYZ top and bottom servo gantry systems for negative probe and positive welding torch respectively

Cycle Time: 19 sec/part

Highlights:

- ✓ Any coil variants can be accommodated
- ✓ Zero pneumatics considered

AUTOMATION PROJECTS

FESTO

PNEUMATIC CYLINDER LEAK TESTING



Location: Bangalore, India

Automation Level: Semi-automatic machine

Leak Testing Unit:

✓ Festo leak tester

Cycle Time: 2 mins – Ø 100mm bore

Highlights:

✓ Universal component clamping fixture using a stepper motor to accommodate any cylinder variants without changeover

FESTO

FLOW CONTROL VALVE ASSEMBLY, TESTING & PACKING LINE



Location: Bangalore, India

Automation Level: Semi-automatic machine

Cycle Time: 42 sec/part

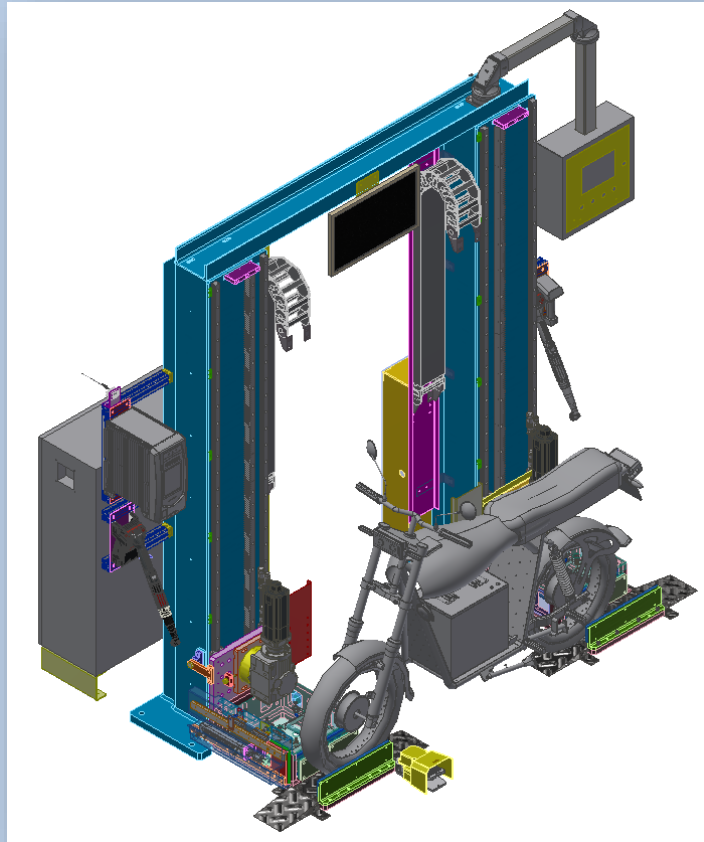
Highlights:

✓ This line can accommodate 9+ flow control valve variants
✓ Capable to assemble small to large size variants (Range Ø4 mm to Ø12 mm)

AUTOMATION PROJECTS



TWO WHEELER LIFTING MACHINE



Location: Hosur, India

Automation Level: Semi-automatic machine

Key Processes:

- ✓ Pneumatic cylinders for vehicle clamping
- ✓ Servo gearbox with rack and pinion mechanism for vehicle lifting

Highlights:

- ✓ Maximum lifting capacity up to 250 kgs
- ✓ Maximum lifting weight up to 2 meters



India Nippon Electricals Ltd

ADHESIVE DISPENSING MACHINE



Location: Rewari, India

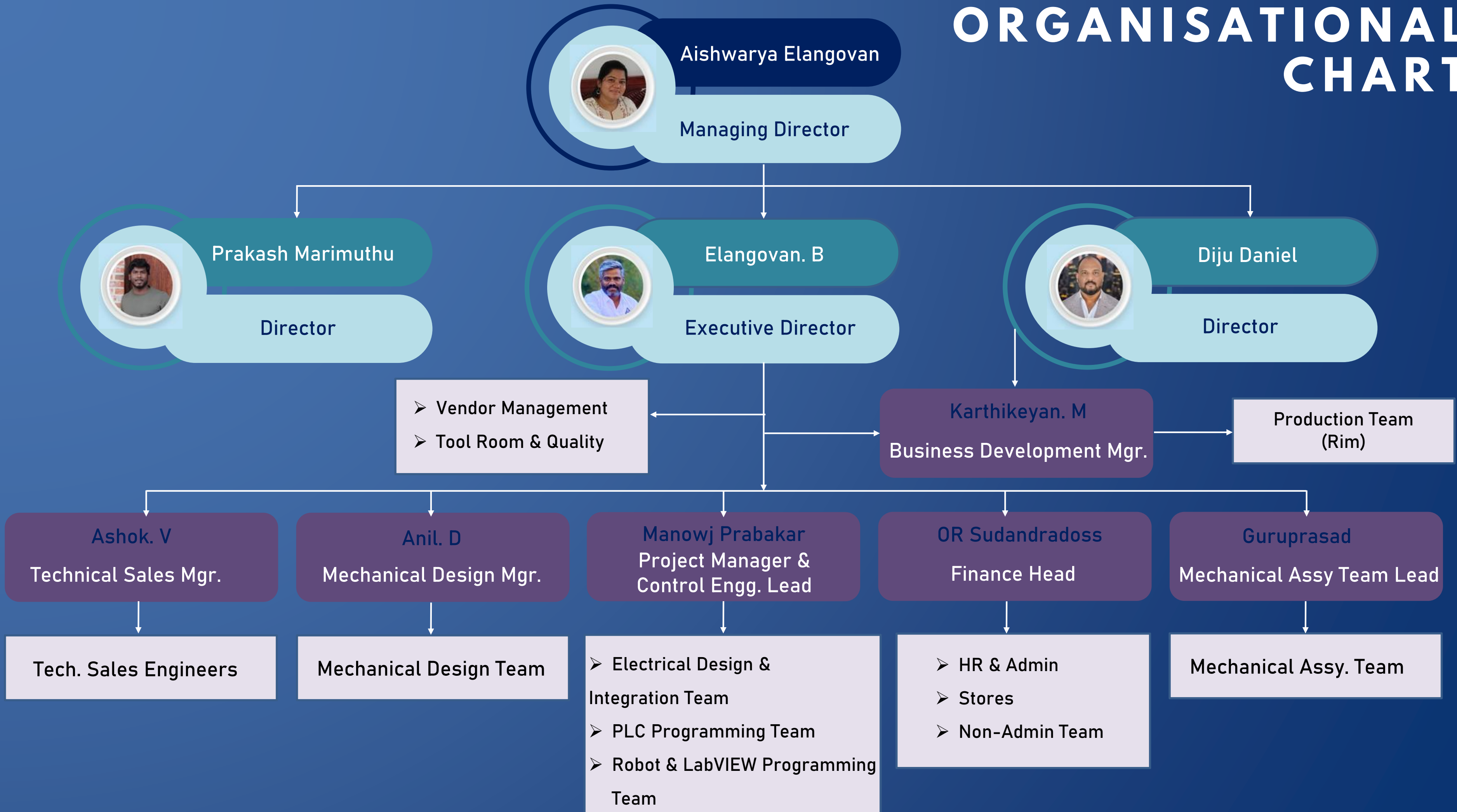
Automation Level: Semi-automatic machine

Processes:

- ✓ Manual Loading
- ✓ Auto Dispensing & manual unloading
- ✓ Manual magnet placing
- ✓ Manual loading
- ✓ Auto Dispensing & manual unloading

Cycle Time: 40 sec/part (Auto dispensing 8 sec)

ORGANISATIONAL CHART



TEAM

PROJECT MANAGER

04

MECHANICAL ASSEMBLY

11

ELECTRICAL DESIGN

03

ELECTRICAL INTEGRATION

06

PLC PROGRAMMING &
TESTING

05

LABVIEW & ROBOT
PROGRAMMING

06

TECHNICAL SALES

01

MECHANICAL DESIGN

08

VENDOR MANAGEMENT &
STORES

03

HR & ADMIN

03

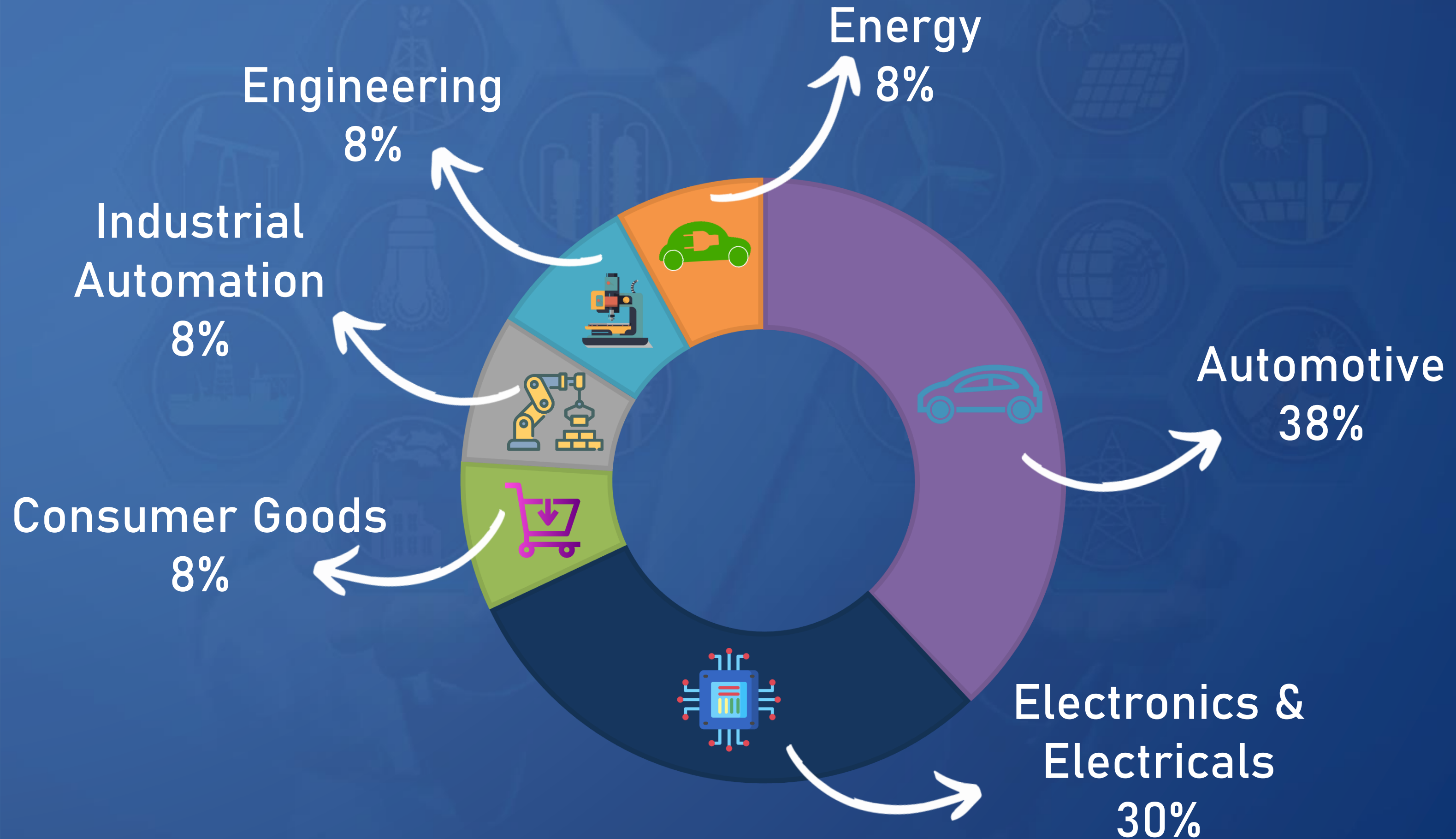
TOOL ROOM, PRODUCTION &
QUALITY

15

NON-ADMIN STAFF

05

INDUSTRY DISTRIBUTION OF ACTIVE CLIENTS



CUSTOMERS GLOBAL PRESENCE



OUR PRESTIGIOUS CUSTOMERS

AUTOMOTIVE



ELECTRONICS & ELECTRICALS



OUR PRESTIGIOUS CUSTOMERS

TIER 1



INDUSTRIAL
AUTOMATION
&
ENGINEERING

OEM



ENERGY
&
EMERGING
TECHNOLOGIES

OEM



CONSUMER GOODS
&
LUXURY



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CONTACT US



THANK YOU



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