

MAAPAN LABS

Spatial Intelligence Solutions



ZERO BLIND SPOTS

PRECISION

TOOL TRACKING

ONE CLICK

MISSION READY

TRILOCA

4D SPATIAL INTELLIGENCE

**FOR MISSION-CRITICAL
AEROSPACE OPERATIONS**

One Platform. Total Visibility.
From Data to Mission Readiness.



**ZERO
BLIND SPOTS**



**<10 CM
ACCURACY**



**24 MS
LATENCY**



**ONE-CLICK
COMPLIANCE**

EMPOWER

EVERY ENGINEER

DIGITAL TWIN

AI-ML INSIGHT

PREDICT & PERFORM

SEAMLESS 4D TRACKING BEYOND BARRIERS

Hangers

Inside-Aircraft

Engine Core

MAAPAN LABS PVT.LTD.
REDEFINING SPATIAL INTELLIGENCE

TRILOCA CONTROL CENTRE
Zero Blind Spots | 4D Spatial Intelligence | One-Click Mission Ready

MISSION-CRITICAL READINESS
SYSTEM STATUS: OPERATIONAL

MAAPAN LABS

Dashboard

Tools

Operators

Settings

HANGER: Airbase Alpha

Search Tool ID, Zone ID

12:27:49
20th FEB, 2026

Total Tools
2845

In Use
258 Tools
Distributed across 20 technicians

In Storage
24
All tools are healthy

Torque Wrench #TW-04 Idle in Work Bay 2.
This tool has not moved for 47 minutes.

View Details

Tool Inventory

Search Tool ID/Name, Operator

Status Zone Tool Type

Tool ID	Tool Name	Tool Type	Current Status	Current Zone	Assigned Operator	Action Required	Last
AX02N18	Klein 11855-INS	Hand Tool	In Storage	Storage Zone		View Details	14 Feb
B2CKV9	Nera 8585619081	Hand Tool	In Use	Work Bay 1	Cpl. T. Rashid	View Details	14 Feb
CD51LZ8	Snap-on DEX7188	Hand Tool	In Aircraft Zone	Aircraft Zone	Sgt. S. Kumar	View Details	14 Feb
EF67QZ	Knapex 95 89-190	Cutting Tool	Idle	Armament		View Details	14 Feb
GH8UJ3	Norbar 13889-Pro	Torque Tool	Missing	Engine Bay	Cpl. A. Singh	Raise Alerts	13 Feb
J4RIKL4M	Bahco 3388 RL KIT	Tool Kit	Unauthorized	Systems Lab	Sgt. R. Mehta	Raise Alerts	14 Feb
KL23RNE	Klein 11877-INS	Hand Tool	Not Returned	Inspection	Cpl. T. Rashid	Raise Alerts	13 Feb

Notifications

All alerts, general messages will show here

Torque Wrench In Use
TW#04 • 8mins ago
Tool has been checked out by Alex Turner and will start using it

Alert : Restricted Zone Breach High Alert
TW#04 • 8mins ago
Alex Turner has entered a restricted zone - Engine Bay 1. This zone requires prior authorisation.

Task Completed Completed
8mins ago
Pre-Flight Inspection has been marked completed by Technician

Klein 11055-INS In storage
A202N1D

The Tool is in the Storage capacity/zone and currently not assigned to any operator

Previously used by
Javed H OP-002 Last used on 18th Feb 2025
Maria L OP-002 Last used on 18th Feb 2025
Maria L OP-002 Last used on 18th Feb 2025

Tool Health: 80% Lifespan Left
Tool has used only 20% of its lifespan.
Tool usage 20 uses since inspection Last Inspected 04th Feb, 2025 Due Inspection 04th Jan, 2026

Zone History

Zone	Entered Time	Exit Time	Operator
Storage Zone	14 Feb 25, 07:30	14 Feb 25, 08:42	Mohit Sharma
Aircraft Zone	14 Feb 25, 09:15	Active	Sgt. S. Kumar
Engine Bay	13 Feb 25, 16:45	13 Feb 25, 17:30	Cpl. D. Verma
Aircraft Zone	13 Feb 25, 16:45	13 Feb 25, 17:30	Cpl. D. Verma



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HANGER: Airbase Alpha

Search Tool ID, Zone ID

12:27:49
20th FEB, 2026

Total Operators
48

Active Operators
34

Operators

Search Operator ID/Name

Status Operator's Role

Operator ID	Operator Name	Operator Role	Tools In-hand	Current Zone	Tasks Completed	Action Needed	Status
OP-001	Sgt. R. Mehta	Lead Technician	12	Storage Z...	7 out of 12	View Details	Logged In
OP-002	Cpl. T. Rashid	Avionics Tech	87	Work Bay 1	12 out of 12	View Details	Logged In
OP-003	Sgt. S. Kumar	Airframe Tech	84	Aircraft Zo...	3 out of 12	View Details	Logged In
OP-004	Lt. A. Singh	Weapons Tech	81	Armament...	11 out of 12	View Details	Logged In
OP-005	Cpl. A. Singh	Engine Tech	11	Engine Bay	6 out of 12	Raise Alerts	Logged In
OP-006	Sgt. R. Mehta	Systems Tech	87	Systems L...	1 out of 12	Raise Alerts	Logged In
OP-007	Cpl. T. Rashid	Engine Tech	83	Inspection...	4 out of 12	Raise Alerts	Logged In

MAAPAN LABS

Dashboard

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Sgt. R. Mehta Logged In
OP-001

Pre-flight Inspection Active Task
Verify all aircraft systems, control surfaces, and safety components are oper...
Tool Required Torque Wrench | Electrical Tools + 5 Assigned Zone Work bay -2 Est Duration 10hrs
Mark as completed

Pre-flight Inspection Upcoming Task
Verify all aircraft systems, control surfaces, and safety components are oper...
Tool Required Torque Wrench | Electrical Tools + 5 Assigned Zone Work bay -2 Est Duration 10hrs

Upcoming tasks

Task	Est. Start Time	Assigned Zone
Pre-Flight Inspec...	14 Feb 25, 08:42	Aircraft Zone
Fuel System Check	14 Feb 25, 09:00	Aircraft Zone
Landing Gear Insp...	13 Feb 25, 17:30	Aircraft Zone
Calibration Check	13 Feb 25, 17:30	Work Bay - 2

Completed tasks

Task	Completed Time	Assigned Zone
Pre-Flight Inspec...	14 Feb 25, 07:30	Aircraft Zone
Fuel System Check	14 Feb 25, 09:00	Aircraft Zone
Landing Gear Insp...	13 Feb 25, 17:30	Aircraft Zone
Calibration Check	14 Feb 25, 08:15	Work Bay - 2

Zone History

Task	Entered Time	Exit Time	Operator
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Tool History

Tools	Checked In	Checked Out	Duration
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COMPLIANCE STATUS

99.97%

Protocol Compliance

Calibration

Documentation

Audit

Certification

READINESS SCORE

95.81% completed

Total Tasks 8074

Completed Tasks 7736

In-progress Tasks 86

Pending Tasks 252

TRILOCA INTELLIGENCE FLOW

TRACKING
4D Positioning Engine
(3D Space + Time)

VISIBILITY
Zero Blind Spot
across Metal Barrier

ORCHESTRATION
AI - ML driven Co-ordination
and Optimization

COMPLIANCE
Single Source of Truth
Digital Audit

MISSION READINESS
Digitally Assured
One Click Readiness

FROM DATA TO DECISIONS | FROM ERP TO DIGITAL TWINS.

100% VISIBILITY OF TOOLS,
ASSETS AND PROCESSES

- 3D Tracking across Metallic Barriers
- Eliminate safety risks and FOD
- Reduced AOG and TOT
- Predict, Prevent and Perform with AI/ML

READY FOR
ONE-CLICK COMPLIANCE?

Deploy Complete Digital Twin for
MRO workflows with Zero Dark Zones

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MAAPAN LABS

Spatial Intelligence Solutions



TRILOCA DEPLOYMENT ECOSYSTEM

4D Spatial Intelligence Infrastructure



A Complete Hardware, Software and AI-ML Ecosystem

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