

Operations Dashboard

 Dashboard

 Production

 Work Centers

 Materials

 Quality

 Maintenance



Active Orders

12



OEE

82%



Status

Open NCRs

3



Open Work Orders

5



Downtime

4 hrs



Critical

Lots Quarantined

1

Production Orders by Status



Open NCRs

Open NCR Cleanment Alert the Quality Alert Items 1

Warning

Open NCR Cleanment Alert the Quality Alert Items 2

Warning

Open NCR Cleanment Alert the Quality Alert Items 3

Critical

Open NCR Cleanment Alert the Quality Alert Items 1

Critical

Recent Production Orders

Order Number WO-1042
Product

In Progress - Blue

Order Number WO-1042
Product

In Progress - Blue

Order Number WO-1028
Product

In Progress - Blue

Order Number WO-1038
Product

In Progress - Blue

Order Number WO-10
Product

In Progress - Blue



Production Orders

[New order](#)

All

Planned

Released

In Progress

Paused

Completed

Closed

Order	Product	Qty	Priority	Due date ▾	Status	Updated
WO-1042	Aluminium bracket · SKU-88231	320/500 pcs	High	05/06/2023	In Progress	25 days ago
WO-1043	Aluminium bracket · SKU-88231	320/500 pcs	Normal	05/06/2023	Released	13 days ago
WO-1044	Aluminium bracket · SKU-88231	100/500 pcs	Normal	05/06/2023	Released	25 days ago
WO-1045	Aluminium bracket · SKU-88231	130/500 pcs	High	05/06/2023	Released	25 days ago
WO-1047	Aluminium bracket · SKU-88231	120/500 pcs	Urgent	05/06/2023	Completed	23 days ago
WO-1048	Aluminium bracket · SKU-88231	180/500 pcs	Normal	05/06/2023	Completed	25 days ago
WO-1049	Aluminium bracket · SKU-88231	120/500 pcs	High	05/08/2023	Completed	25 days ago
WO-1050	Aluminium bracket · SKU-88231	120/500 pcs	Urgent	05/08/2023	Completed	25 days ago

Showing 1–25

[Previous](#)[Page 1](#)[Next](#)

WO-1042

Aluminium bracket 40x60 · SKU-88231

Quantity

320/500 pcs

Planned start

Tue 09:00

Due date

Feb 11, 2023

ERP reference

WO-1042

Completion

64%

Advance order

Release

Start

Complete

Cancel

Routing operations

# sequence	Operation name	Work Center	Good count	Scrap count	Run time	Status pill	
1	CNC milling	Work Center 1	320	0	10 min	Released	Record
2	CNC milling	Work Center 2	200	0	20d 2ms	High	Record
3	CNC n/ant process	Work Center 3	70	0	10 min	High	Record
4	CNC milllering	Work Center 2	60	1	10 min	High	Record

Material lots

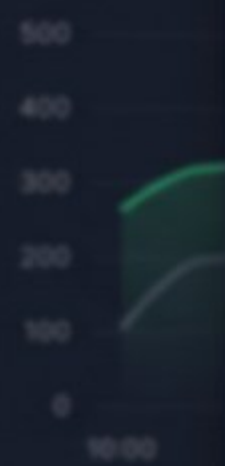
Lot number	Material	Qty	Status pill
10000000001	Material I trint	100	Released

- Dashboard
- Deshuction
- Sellers
- Widgets
- Reports
- Status New
- Profile
- Widgets
- Message
- Returns

Dashboard

Order number
WO-104

Widgets



Production

Name

WO-1045

SKU-88231

SKU-88232

Aluminium bra...

SKU-88231

SKU-88231

Procus

Dis fast

Last update

21 Feb 2023

19 Feb 2022

18 Feb 2023

Status

Report

Report

Report

New production order

Schedule a new order onto the shop floor

Order number

WO-1045

Product SKU

SKU-88231

Product name

Aluminium bracket 40x60

Quantity

500

pcs

UoM

pcs

Priority

Normal

Due date

Select date...



Notes

Add optional notes...

Cancel

Create order



Production-Order-Detail

Production-order-

Overview

Details

Analytics

Dashboard

Save



Operation

Production · 3.5 am

Name

Status

Operator

Running

Prodeved date

06/10/2028

Trat type

Running

Scrap amount

1

Order amount

2021.10.16

Record — CNC milling

Log progress against this operation

Status

● Running

Good count

480

Setup (min)

15

Scrap count

6

Run (min)

120

Cancel

Save

Production-order detail (1)

Production

Type

Status

Run (mit)

Accounts



ManufacturedOps

Dashboard

Scheduling

Analysis

Notifications

Schedule

Profiles

Reports

Settings

Settings

Scheduling

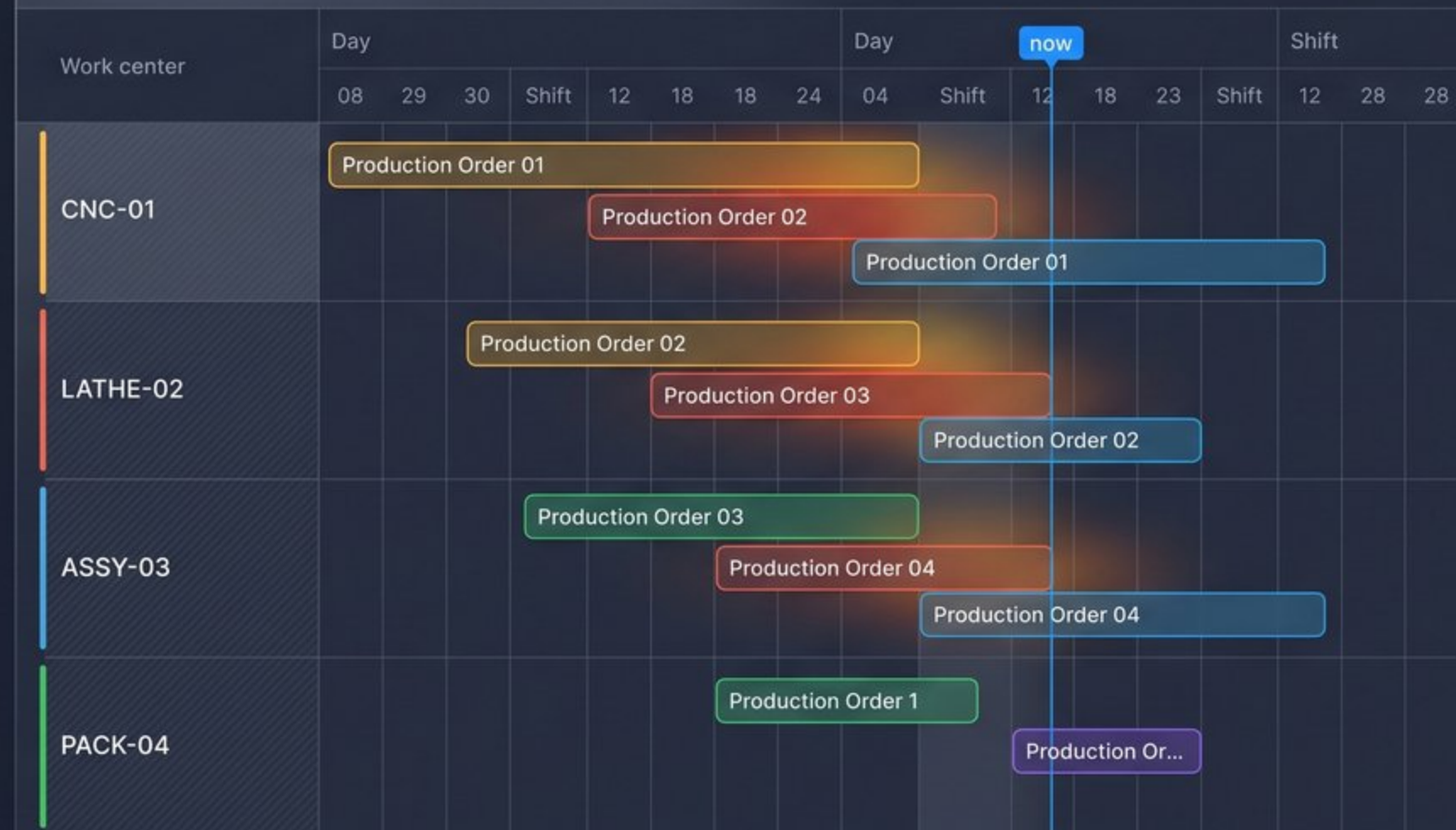


Finite-capacity scheduling

Drag-and-drop

Same board

+ New order



Order details

PS3021053E

Status

CNC-01

Date

Su 5, 2023

Work center

Auto-

production

Deposition

High

Capacity utilization

CNC-01

100%

LATHE-02

75%

ASSY-03

65%

PACK-04

36%

Demand & planning.

Dashboard

Intertier

Productions

Plan from demand

MRP

Events

Settings

Settings

Log out

Search...



All Recorders

Primar orders

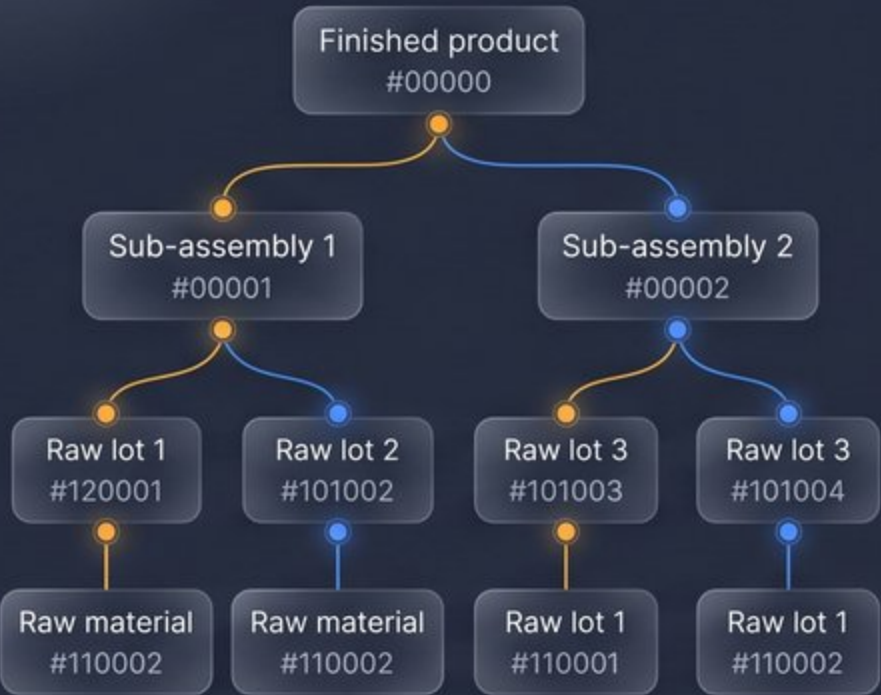
Demand

Selections

☐	SKU	Quantity	Need by	
☐	Sales order			▼
☐	SKU3001	30	7/5/2024	▼
☐	SKU3002	20	7/5/2024	▼
☐	Sales order	20	7/5/2024	▼
☐	SKU3003	20	3/7/2024	▼
Forecast rows				
☐	SKU3001	10	8/7/2024	▼
☐	SKU3002	30	8/7/2024	▼
☐	SKU3003	20	9/7/2024	▼
☐	SKU3004	20	9/7/2024	▼
☐	SKU3005	10	9/7/2024	▼

BOM explosion

Selections



Suggested plan

SKUQuantityStart date

Production order 1
SKU0001200Suggested
09/17/2024>

Production order 2
SKU0002200Suggested
09/11/2024>

Production order 3
SKU000150Suggested
10/12/2024>

Production order 4
SKU000150Suggested
10/11/2024>

Production order 5
SKU00015Suggested
10/11/2024>

Production order 7
SKU000210Suggested
10/11/2024>

Generate orders

Work Centers

New work center +

Total centers
42

Active
37

Machines
128

Lines
15

All

Active

Inactive

Search Work Centers...

⌵ Filters

☐ Code ↑	Name ↕	Type ↕	Capacity (h)	Run rate /hr	OEE (%)	State ↕	Location ↕		
☐ WC-CNC-01	CNC Machining Cell A	Machine	16.0	120	88.4%	Operational	Floor 1		
☐ WC-ASSY-03	Assembly Line B	Line	24.0	450	76.1%	Maintenance	Floor 1		
☐ WC-WELD-02	Robotic Welding Stn	Machine	16.0	85	91.2%	Operational	Floor 2		
☐ WC-PACK-01	Primary Packaging	Line	24.0	900	62.5%	Idle	Floor 1		
☐ WC-MILL-05	Vertical Milling Ctr 5	Cell	16.0	55	89.0%	Operational	Floor 3		

10 ▾

1-5 of 42

⏪ ⏩ ⏴ ⏵

Work Center detail

WC-CNC-01 · CNC Machining Cell 1

Type **Cell****Active**[< Back](#)[Archive](#)

Capacity

16 h

Ideal run rate

120 /hr

Description

This product means dolor sit amet, consectetur adipiscing cell. Rule through comurus, aligns, dollotoraten and component sites.

tags

opunc-01

degraded

maetic machining

cemnr-01

tags

coomr-13

tall-12

Assets at this work center

Asset tag	Name	Status	Running hours	PM interval
WC-CNC-01	CNC Machining	Operational ✓	712 h	20 hours
WC-CNC-02	CNC Viest Machining	Degraded !	210 h	20 hours
WC-CNC-01	CNC Machining	Down	50 h	3 days

Operations

sequence	operation name	status	good/scrap counts
1	Op 10 - Milling	Operational ✓	150 / 3

WO-1042 · CNC milling · Op 20

Clock On /
Clock Off



00:03:58



Good

480



Scrap

6



Work Instruction



Work Instruction

Report
Quantity

Log
Scrap

Flag
Issue

Complete
Operation

Overall Equipment

86%
OEE



 Dashboard

 Home

 Components

 Users

 Stams 

 Materials

 Workers

 Charts

 Storage

 Settings

Material Lots

New lot

 Available
200

24

 Quarantined
0

0

 Total lots
36

12

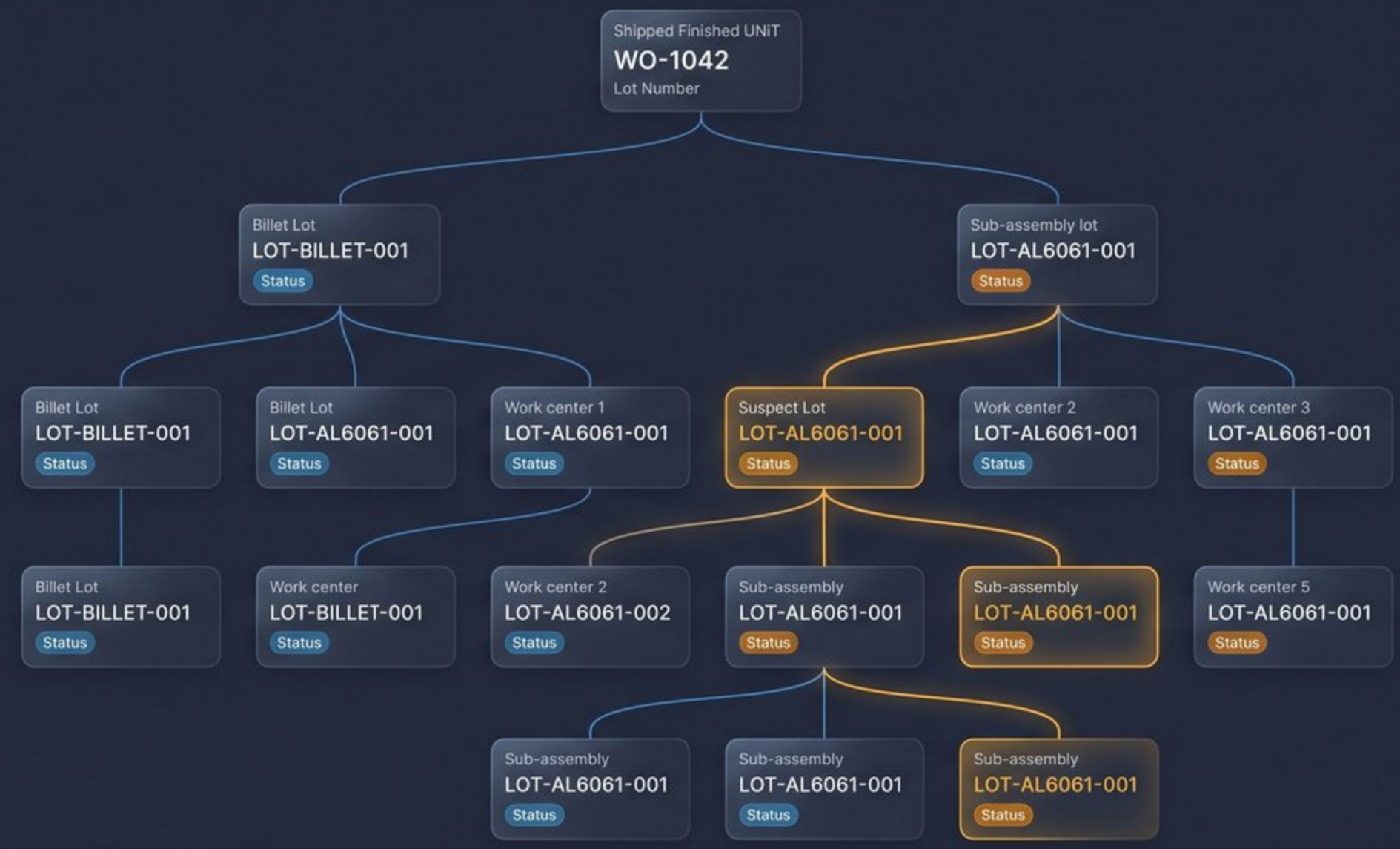
All Available Allocated Consumed Quarantined Scrapped

Lot number	Material	Quantity	Supplier	Status	Expiry	
LOT-AL6061-001	Aluminium 6061 billet · MAT-AL6061	500 kg	Aluminium	Available	26/12/2023	Set status 
LOT-AL6061-002	Aluminium 6061 billet · MAT-AL6061	500 kg	Aluminium	Quarantined	26/12/2023	Set status 
LOT-AL6061-003	Aluminium 6061 billet · MAT-AL6061	200 kg	Manufacturer Ltd	Quarantined	26/12/2023	Set status 
LOT-AL6061-004	Aluminium 6061 billet · MAT-AL6061	500 kg	Manufacturer	Available	25/12/2023	Set status 
LOT-AL6061-006	Aluminium 6061 billet · MAT-AL6061	500 kg	Supplier	Available	05/10/2023	Set status 
LOT-AL6061-007	Aluminium 6061 billet · MAT-AL6061	500 kg	Supplier	Available	05/10/2023	Set status 
LOT-AL6061-008	Aluminium 6061 billet · MAT-AL6061	200 kg	Supplier	Scrapped	06/12/2023	Set status 
LOT-AL6061-009	Aluminium 6061 billet · MAT-AL6061	500 kg	Manufacturer	Available	03/10/2023	Set status 

-  Dashboard
 -  Process
 -  Operations
 -  Mantagers
 -  Traceability
 -  Support
 -  Settings
-  Settings

Genealogy & traceability

 Transvifactura 



Trace



Lot
LOT-AL6061-001

Lot	Number
Machine	WO-1042
Machine	WO-1042
Operator	John Smith
Inspection event	-



Suspect lot
LOT-AL6061-001

Lot	LOT-AL6061-001
Machine	WC-101
Operator	John Smitlsh
Inspection event	-



Suspect lot
LOT-AL6061-001

Lot	LOT-AL6061-001
Machine	WO-112
Operator	John Smitish



Inspection event

Lot	
Machine	LOT-AL6061-001
Operator	Prand Braphon

Quality

Total inspections

1,224

Pass rate

96%

Open NCRs

3

Critical open

0

Inspections

Inspection Plans

Non-Conformances

All

Pending

Pass

Fail

Conditional



Record inspection

☐	Stage	Result	Sample size	Defect count	Inspected at
☐	Incoming	Pass	20	1	1/10/2022 3:08 PM
☐	In-process	Fail	30	0	1/10/2022 3:00 PM
☐	In-process	Conditional	30	0	1/10/2022 3:08 PM
☐	In-process	Pass	20	1	1/10/2022 3:03 PM
☐	Final	Pending	30	0	1/10/2022 3:03 PM
☐	Final	Pending	30	0	1/10/2022 3:06 PM

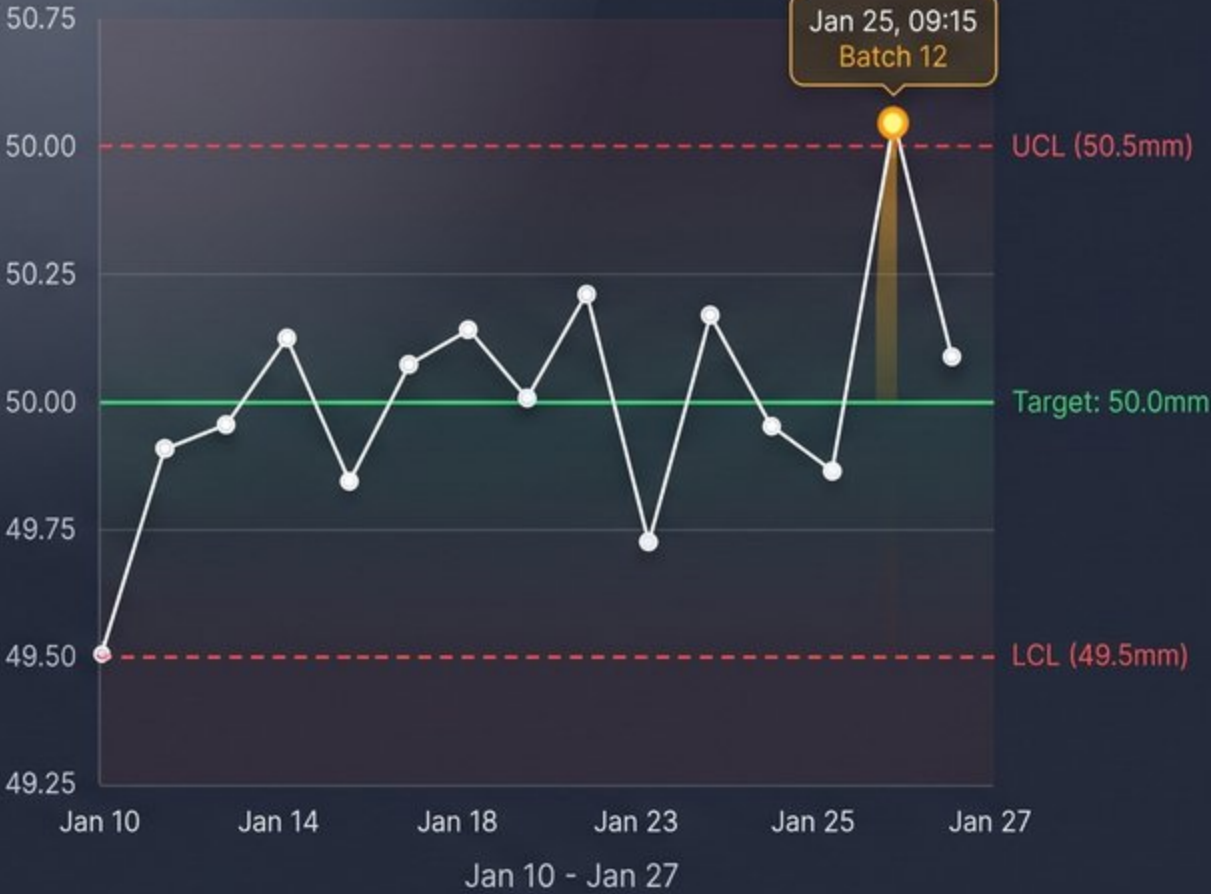


Active Inspection Plans

+ New Plan

Code ▲	Name	Stage	Product SKU	Active
IP-INCOMING-01	Incoming Materials	Receiving]	RM-ALUM-2045	☒
IP-ASSY-42	Final Assembly Q1	Production	FG-CHASSIS-98	☒
IP-ASSY-42	Final Assembly Q1	Production	RM-ALUM-2045	☐
IP-ASSY-42	Final Assembly Q1	Production	FG-CHASSIS-98	☐
IP-ASSY-42	Final Assembly Q2	Production	RM-ALUM-2045	☐
IP-ASSY-42	Final Assembly Q1	Production	FG-CHASSIS-98	☐
IP-ASSY-42	Incoming Materials	Production	RM-ALUM-2045	☐
IP-ASSY-42	Incoming Materials	Production	FG-CHASSIS-98	☐
IP-ASSY-42	Incoming Materials	Production	RM-ALUM-2045	☐

SKU: FG-CHASSIS-98 - Dimension $\bar{X}$ -R chart (Active)



- Home
- Suppiots
- Services
- Renders
- Quality
- Conformers
- Tenns
- Locations
- Settings

 Home Production Quality Inventory Reports Settings

Quality Inspection

 Recort

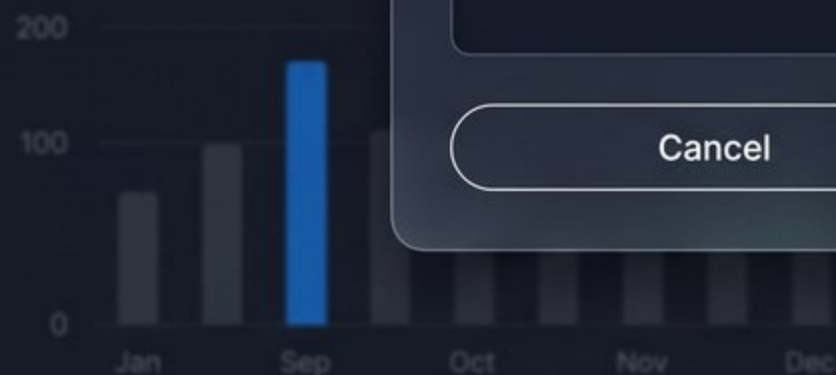
Add results ▾

Production
62.2 mm

Production data



Comparitims



Record inspection

Stage

● In-process ▾

Result

● Pass ▾

Sample size

10

Defect count

0

Inspection plan

IP-INCOMING-01 ▾

Tolerance
±0.05mmMeasured
10.02mmStatus
Compliant

Notes

Enter specific details or observations...

Cancel

Record

Status

Compliant

type	Status	Last date ▾	
ance	In-process	3 Jun 2023	⋮
ance	±0.05mm	3 Jun 2022	⋮
ance	10.02mm	Compliant	⋮
ance	Pass	3 Jun 2022	⋮
ance	10.02mm	3 Jun 2022	⋮
ance	Pass	Compliant	⋮
ance	10.02mm	3 Jun 2022	⋮
ance	10.02mm	3 Jun 2022	⋮

5 from 8 page

< < >

Quality

Raise NCR

Inspections

Inspection Plans

Non-Conformances

All

Open

Investigating

Contained

Corrective Action

Closed

NCR number	Title	Severity	Status	Disposition	Qty affected	Due date
------------	-------	----------	--------	-------------	--------------	----------

NCR-1001	Surface finish out of spec	Minor	Open	Rework	10	02/03/2023
----------	----------------------------	-------	------	--------	----	------------

Advance

NCR-1002	Surface finish out of spec	Major	Investigating	Scrap	25	02/07/2023
----------	----------------------------	-------	---------------	-------	----	------------

Open
→ Investigating
→ Contained
→ Corrective Action
→ Closed

NCR-1003	Surface finish out of spec	Critical	Closed	Use-as-is	10	02/07/2023
----------	----------------------------	----------	--------	-----------	----	------------

NCR-1004	Surface finish out of spec	Minor	Closed	Rework	10	02/07/2023
----------	----------------------------	-------	--------	--------	----	------------

NCR-1005	Surface finish out of spec	Minor	Open	Rework	10	02/07/2023
----------	----------------------------	-------	------	--------	----	------------

NCR-1006	Surface finish out of spec	Major	Investigating	Scrap	15	02/07/2023
----------	----------------------------	-------	---------------	-------	----	------------

NCR-1007	Surface finish out of spec	Critical	Closed	Use-as-is	13	02/07/2023
----------	----------------------------	----------	--------	-----------	----	------------



Dashboard

Assets

Operating

Manufacturing

Maintenance

Analysis

Downtime

Assets

Custom settings

Maintenance

Operational assets

250

Down assets

00

Open work orders

12

Downtime hrs

13 hrs

Work Orders

Assets

Downtime

New work order

All

Scheduled

In Progress

On Hold

Completed

Cancelled

WO number	Title	Type	Asset	Status	Scheduled for	Downtime (min)	
WO-PM-2201	Spindle lubrication	Preventive	AS-PRESS-01	Onent	Apr 27/2023	30	Advance ▾
WO-PM-2202	Spindle lubrication	Corrective	AS-PRESS-01	Completed	Apr 13/2023	30	Advance ▾
WO-PM-2203	Spindle lubrication	Predictive	AS-PRESS-01	Corrective	Apr 13/2023	30	Advance ▾
WO-PM-2204	Spindle lubrication	Predictive	AS-PRESS-01	Completed	Sep 3/2023	30	Advance ▾
WO-PM-2205	Spindle lubrication	Corrective	AS-PRESS-01	Completed	Apr 13/2023	30	Advance ▾
WO-PM-2206	Spindle lubrication	Predictive	AS-PRESS-01	Completed	Apr 13/2023	30	Advance ▾
WO-PM-2207	Spindle lubrication	Inspection	AS-PRESS-01	Corrective	Apr 13/2023	30	Advance ▾
WO-PM-2208	Spindle lubrication	Corrective	AS-PRESS-01	Completed	Sep 8/2023	30	Advance ▾
WO-PM-2201	Spindle lubrication	Corrective	AS-PRESS-01	Completed	Apr18/2023	30	Advance ▾

Maintenance

[New asset](#)[Work Orders](#) [Assets](#) [Downtime](#)[All](#)[Operational](#)[Degraded](#)[Maintenance](#)[Down](#)[Retired](#)

Asset tag	Name	Status	Manufacturer & model	Running hours	PM interval	Last serviced		
AS-PRESS-01	Hydraulic press 200T	Operational	Acme Corp HP200	4,210	500 h due soon	Oct 12, 2023		
AS-CNC-04	CNC Mill 5-Axis	Degraded	Haas VF-2	2,850	750 h	Sep 30, 2023		
AS-ROBOT-02	KUKA KR120	Down	KUKA Robotics	6,100	1000 h 95%	Nov 01, 2023		
AS-PACK-03	Packaging Line 3	Operational	Siemens PL300	1,150	300 h	Oct 25, 2023		
AS-WELD-01	Spot Welder Station	Maintenance	Lincoln Electric	3,300	400 h	In Progress		

Dashboard

Assets

Channels

Work Orders

Maintenance

Assets

Assets

Security

Commitments

Settings

Work Orders

Assets

Downtime

Record downtime

All

Planned

Breakdown

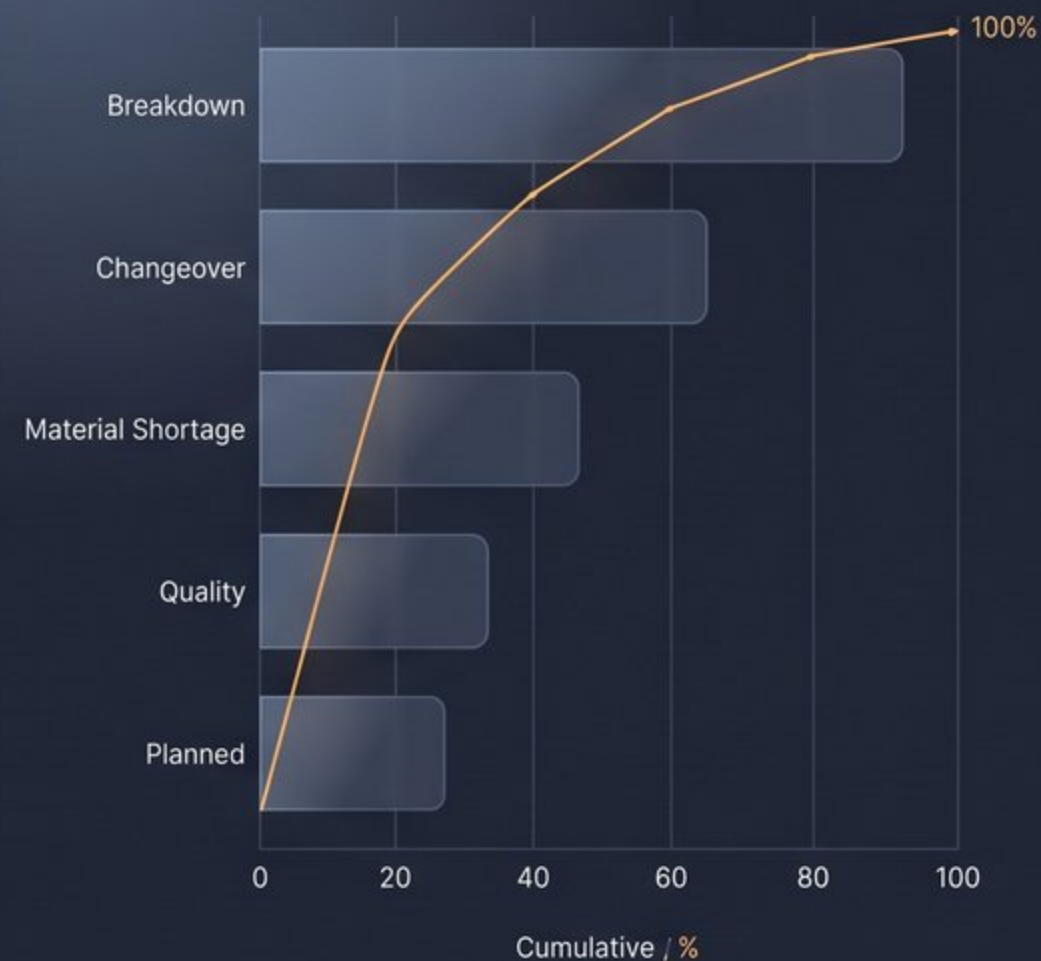
Changeover

Material Shortage

Quality

Reason	Duration	Started at	Work center / Asset	Description
Breakdown	Duration 45 min	09:45 at 22:08	Work center / Asset Concreation 1	Breakdown to provide problem detected
Changeover	Duration 45 min	06:45 at 22:08	Work center / Asset Concreation 2	Changeover to rnumim changeover
Material Shortage	Duration 45 min	06:45 at 22:08	Work center / Asset Concreation 1	Material Shortage becomes halt so venus u...
Quality	Duration 45 min	06:45 at 22:03	Work center / Asset Concreation 2	Quality found mading quality
Planned	Duration 45 min	06:45 at 22:03	Work center / Asset Concreation 1	Description Changeover material shortage
Planned	Duration 45 min	06:45 at 22:02	Work center / Asset Concreation 2	Quality found mading quality
Breakdown	Duration 45 min	06:45 at 22:02	Work center / Asset Concreation 1	Description Changeover material shortage

Downtime Pareto



 Dashboard

 Users

 Components

 Analytics

 Assets

 Maintenance

 Commence

 Usbug

 Settings

 Customization

 Settings

 Log out

Maintenance schedule

 New task

 Work order

< January 2022 >

 Preventive  Corrective  Inspection

Sun Mon Tue Wed Thu Fri Sat

31	1	2 Corrective action Inspection	3 Preventive main Corrective action overdue	4 Preventive action Inspection	5 Corrective action Inspection	6
7	8 Corrective action Inspection	9 Preventive plan Inspection	10 Preventive maint Corrective action due	11 Preventive plan Corrective action	12 Preventive plan Inspection	13
14	15 Corrective action Inspection	16 Preventive plan Inspection	17 Preventive plan Corrective action due	18 Preventive plan Inspection	19 Preventive plan Inspection	20
21	22 Preventive plan Inspection	23 Preventive plan Corrective action	24 Preventive plan Inspection	25 Preventive plan Corrective action overdue	26 Corrective action Inspection	27
28	29 Preventive plan Corrective action	30 Preventive plan Inspection	31	1	2	3

Preventive maintenance

work order

ManufacturedOps

Updated on: Jan 21, 2023

overdue

Asset

Manufactured PS-1

Maintenance interval

16 hours

Technician

 Sam Smith

Checklist

- ☒ Power down machine
- ☐ Clean cooling vents
- ☐ Check fluid levels
- ☐ Inspect drive belts
- ☐ Recalibrate sensors
- ☐ Submit maintenance report

Checklist

Upcoming maintenance

Preventive maintenance 1

Feb 10, 2022, Plan

Preventive maintenance 2

Feb 10, 2022, Plan

Preventive maintenance 3

Feb 10, 2022, Plan

Task implications



ManufacturedOps

Dashboard

Machine

Overview

Manager data

Support

Applications

Data

Settings

Settings

Settings

Machine data

Machine & IoT data capture, real-time monitoring

PLC/sensor

CNC-01

Running



Spindle load

100%

Temperature

28°C

PLC

LATHE-02

Idle

Rate

1000 / ideal

Cyclents

Spindle load

50%

Temperature

25°C

PLC

PRESS-03

Idle



Spindle load

100%

Temperature

28°C

PLC

ASSY-04

Down

Rate

1000 / ideal

Cyclents

Spindle load

50%

Temperature

25°C

PLC

PRESS-03

Idle



Spindle load

100%

Temperature

25°C

LATHE-02

Running

Rate

1000 / ideal

Cyclents

Spindle load

100%

Temperature

35°C

ASSY-04

Down



Spindle load

100%

Temperature

28°C

LATHE-02

Running

Rate

1000 / ideal

Cyclents

Spindle load

50%

Temperature

25°C

Part-count throughput (last hour)

Last hour



Integrations

Sync integration

ERP

(SAP)



Connected

Last sync: 2023-05-12 EST

records synced: 2983

MES/machines

(OPC-UA / MQTT)



Connected

Last sync: 2023-05-13 EST

records synced: 385

Analytics (BI)



Connected

Last sync: 2023-08-39 IST

records synced: 290

GraphQL API



Syncing

Last sync: 2023-08-39 IST

records synced: 22

ManufacturedOps

Two-way sync

- production orders in
2023-10-16 18:35
- completions out
2023-10-18 18:44
- production orders in
2023-10-18 15:38
- completions out
2023-10-18 16:12
- completions out
2023-10-18 16:12

GraphQL-first API

```
expert dataManufacturesdBps {  
  const GraphQL-FirstAPI  
  resurs: {  
    ap: {  
      cod: {  
        czees: id  
        emome: string  
      }  
    }  
  }  
}}
```



Plant: Chennai Plant ▾



Plants & access

Plants

Chennai
Chennai Plant

60%
OEE %

50%
On-time delivery %

0
Open NCR

Pune
Chennai Plant

60%
OEE %

50%
On-time delivery %

0
Open NCR

Detroit
Chennai Plant

60%
OEE %

50%
On-time delivery %

0
Open NCR

Pune
Manufacturer Plant

60%
OEE %

50%
On-time delivery %

0
Open NCR

Detroit on
Manufacturer Plant

60%
OEE %

50%
On-time delivery %

0
Open NCR

Roles & access

Role	Planner	Supervisor	Operator	Operator	Quality	Admin	Permission	Admin
Planner	✓	✓	✓	✓	✓			
Supervisor		✓	✓	✓	✓			
Operator			✓	✓				
Quality					✓	✓		
Admin						✓	✓	✓

Audit-trail

- User Manavodured a operamor action. 6:36 AM
Planner
- User Manavodured opernton action. 6:36 PM
Operator
- User Manufactured cemmer-cocent action. 6:05 AM
ManufacturedOps
- User Manaver tremen process. 8:05 AM
ManufacturedOps
- User Manufactured amanagement action. 9:05 PM
ManufacturedOps



ManufacturedOps

Documents

Manage work instructions, drawings, and certificates.

New Folder

> Drawings

✓ Work Instructions



WI-CNC-milling.pdf

V4.1

Oct 28, 2023, 09:15 AM

Active



WI-Assembly-Line1.pdf

V2.0

Oct 28, 2023, 09:15 AM



WI-Quality-Check.docx

V1.1

Oct 29, 2023, 09:15 AM

✓ Certificates



mat-cert-AL6061.pdf

V1.2

Oct 28, 2023, 09:15 AM

Valid



compliance-DOC.pdf

V1.0

Oct 28, 2023, 09:15 AM

> Manuals

WI-CNC-milling.pdf (V4.1)

Manufacturing Work Instruction - CNC Milling (Part 40x60 Rev C)

[WO-1042] Linked to Work Order



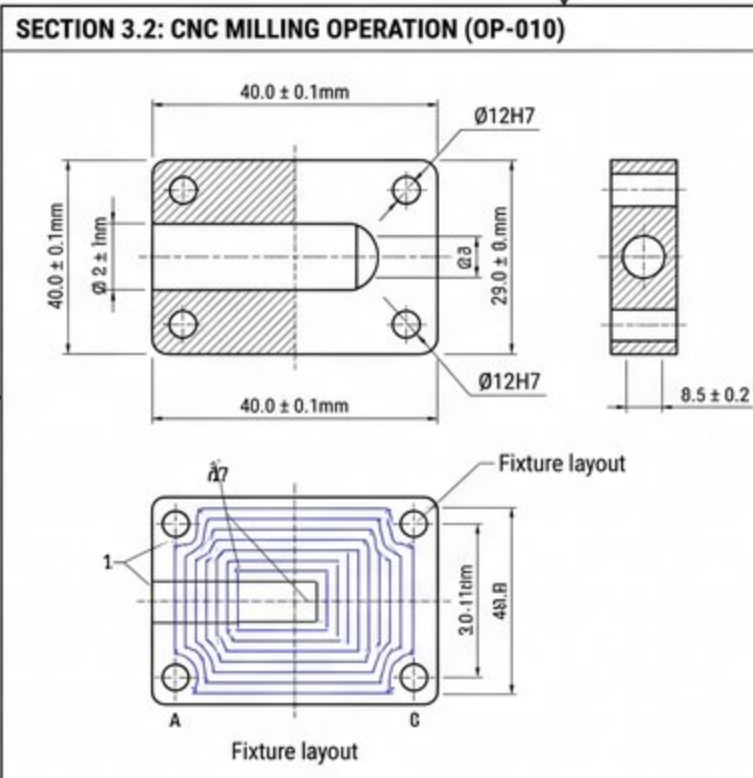

1/12








SECTION 3.2: CNC MILLING OPERATION (OP-010)



Setup:

1. Load workpiece.
2. Secure fixture [F-42].
3. Roughing: T01 - End Mill 20mm

Instructions:

- Roughing: T01 - End Mill 2mm
- Roughing: T01 - End Mill 20mm
- Roughing: T01 - End Mill 2mm
- Toolpath:: T04

Parameters:

Speed: 1200 RPM
Feed: 150 mm/min

Notes:

1. Load workpiece on transis to workpiece that need to panstart workpiece.
2. Secure fixture fatterel and material encuice bu okerated varillcut sut error on pranonenamimers.

Part 40x60 Rev C

ACTIVE (Rev 4.1)

Version History

V4.1 (Current) Oct 28, 2023 |

V4.0 Sep 15, 2023 | V3.9 Aug 12, 2023

Download File

Compare Versions

Add Note



9:41

 **ManufacturedOps**

OPERATOR ACTION - Station 4

Order #PO-1024
Operation: Milling OP-452

Good Parts:

-

142

+

Scrap Parts:

-

4

+

Scrap Reason

[REPORT PRODUCTION](#)

[COMPLETE OPERATION](#)

Dashboard Orders Actions Alerts Settings

 Dashboard Quality Events Production Lamples Starings Settings

Quality

Quality dashboard



NCR Log

Nam ↑

NCR-1002

NCR-1004

NCR-1003

NCR-1001

NCR-1002

Raise NCR



NCR number

NCR-1002

Title

Surface finish out of spec

Description

The surface finish on batch #A124 parts is Roughness Ra > 1.6μm, exceeding specification (0.8μm). Root cause investigation required...

Severity

Major



Disposition

Rework



Quantity affected

12

Due date

2023-11-15



Attachments



Drag & drop files or upload
part_inspection_photos.jpg

Cancel

Raise NCR

 Settings Quality Production NCR Log

Last month

 Behind  Sales

Date

Disposition

2023-11-15

2 hours ago

2023-11-15

2 hours ago

2023-11-15

2 hours ago

2023-11-15

5 minute ago

2023-11-15

4 hours ago

New lot

Lot number

LOT-AL6061-002

Material SKU

MAT-AL6061

Material name

Aluminium 6061 billet

Quantity

500

UoM

kg

Supplier

Vedanta

Received date

02/09/2023



Expiry date

22/09/2023



Cancel

Create lot

Navigation

Dashboard

Work Orders (Active)

Assets

Analytics

Maintenance

Team

Settings

Maintenance

New work order

New work order



WO number

WO-PM-2202

Title

Spindle lubrication

Type

Preventive



Asset



AS-PRESS-01 · Hydraulic press 200T



Priority

Medium



Assigned To



Michael Chen



Scheduled Date

2023-11-24



Description

Perform mandatory bi-weekly spindle lubrication on AS-PRESS-01 (Hydraulic press 200T). Check lubricant levels, inspect mechanism for wear, ensure proper functioning. Record all actions. (Mobil DTE 25).

Cancel

Create work order

Maintenance Backlog



Equipment Status



chmet



Maintenance



AS-PRESS-01

Medium

Michael Chen

Loser



Maintenance

Record downtime

Actions

Record downtime

Reason

Breakdown

Duration (min)

45

Started-at

Date at 12:00:00

Work center

CNC-WC-01

Asset

AS-PRESS-01

Description

Cancel

Record

 Dashboard Users Creates Work Centers Value flow Storage Settings Deployits Help

Work Centers

 Search☐ Code ↑☐ WC-CNC-02☐ CNC Machinin☐ CNC Machinin☐ CNC-CNC-02

New work center

New work center

Code

WC-CNC-02

Name

CNC Machining Cell 2

Type Machine / Line / Cell / Assembly / Manual

Machine

Capacity hours

16

Ideal run rate

120

Description

Description

Cancel

Create work center

Capacity

Status

Machine

• Machine



Machine

• Machine



Machine

• Machine



Machine

• Machine



📊 Dashboard

📈 OEE

📋 Production

📅 Schedule

🖥️ Operator

🔧 Work Centers

📦 Materials

🔗 Traceability

🛡️ Quality

🔧 Maintenance

🔌 Integrations

PO-2041 · Housing Bracket 7mm

SKU HB-7MM-204

Qty 1,200

IN PROGRESS

HIGH



Completion

Progress Priority

Operations

Seq	Operation	Work Center	Status	Good	Scrap	Run (min)
10	Saw cut	SAW-01	Completed	1,200	6	84
20	CNC mill	CNC-03	In progress	812	11	141
30	Deburr	MAN-02	Pending	—	—	—
40	Final inspect	QA-01	Pending	—	—	—

AI Assistant

New chat ✕

Ask me to do things on this screen — I can run them for you.

Context: Production order · PO-2041

What does Released mean for this order?

Released means the order is approved and issued to the floor. Work can be started, but no operation has been booked yet. Once an operator books time or output, the order moves to In Progress.

⚠️ Plant data grounding is not connected yet — answers are general, not read from your records.

Ask anything, or describe what to create...



- Dashboard
- OEE
- Production
- Schedule
- Operator
- Work Centers
- Materials
- Traceability
- Quality**
- Maintenance
- Integrations

Quality

Inspections | Inspection Plans | **SPC** | Non-Conformances

Inspection plan: IP-014 · Final — Housing Bracket

Chart type: Individual / Moving Range (I-MR)

Characteristic: Diameter

Record measurement

⚠ 2 points out of control (beyond the 3-sigma limit) Raise NCR

Center line: 12.004

UCL: 12.061

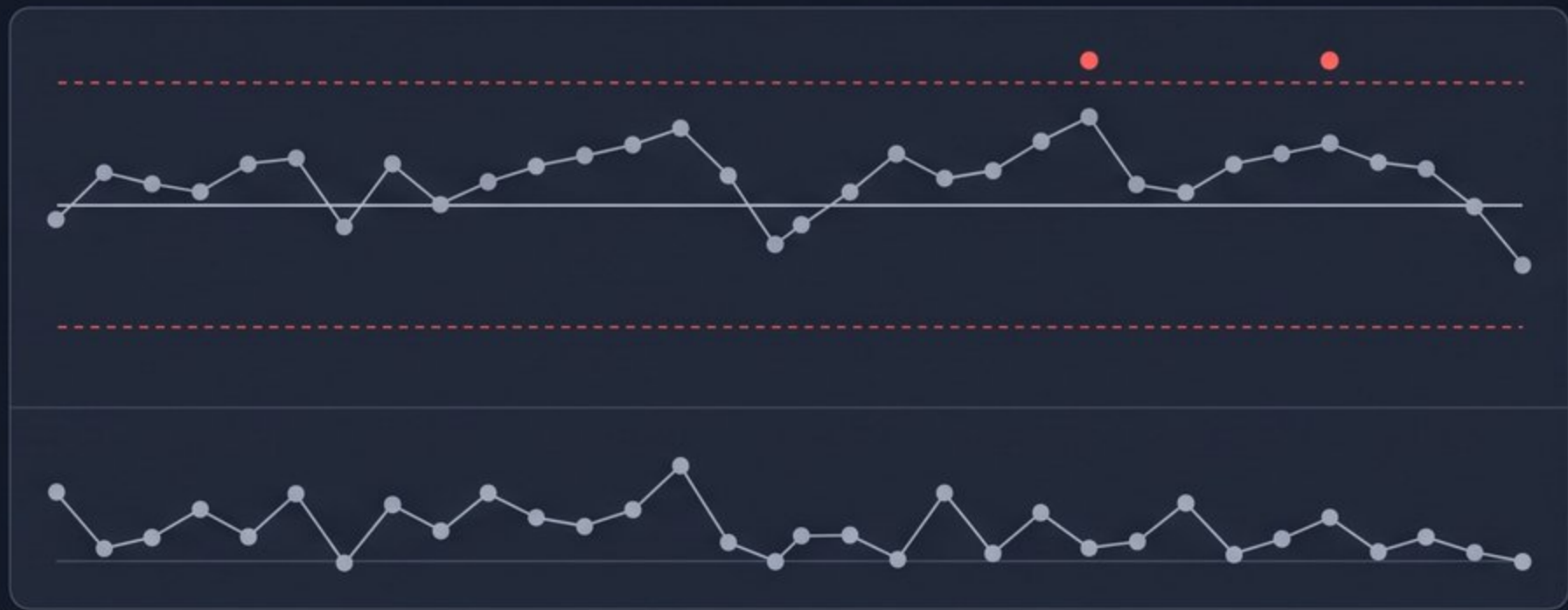
LCL: 11.947

Points: 48

Cp: 1.42

Cpk: 1.18

Sigma: 0.019



Recent inspections		
INS-1182	12.058	Pass
INS-1183	12.071	Fail
INS-1184	12.066	Fail
INS-1185	12.010	Pass

Real-time OEE Andon Dashboard

Plant-wide equipment effectiveness, refreshed live from the floor.

14:32:07

Auto-refresh 30s

Refresh



Availability
84%

Performance
91%

Quality
93%

Raw-input			
Good 18,402	Scrap 486	Run time 612 min	Downtime 96 min

Production line status

Work centers by active state and derived ideal-throughput capacity share

CNC-03
Running

SAW-01
Running

PRESS-02
Down

MAN-02
Idle

QA-01
Running



- Dashboard
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Genealogy & Traceability

Walk lot pedigree end-to-end — where material came from, where it went, and what a suspect lot touched.

Production order

PO-2041 · Housing Bracket 7mm



1 suspect lot in this order

4 downstream lots potentially affected — review recall scope.

Trace impact

Genealogy tree

Selected Suspect Impacted

The production order is the root; each lot nests under its parent lot.

PO-2041

LOT-8801 · Steel bar 12mm · Available

LOT-8815 · Blank stock · Quarantined

LOT-8840 · Machined blank · Consumed

LOT-8841 · Machined blank · Consumed

LOT-8852 · Sub-assembly · Available

LOT-8860 · Finished bracket · Available

LOT-8802 · Steel bar 10mm · Available

Selected node

Quantity	420 pcs
Supplier	Meridian Metals
Received	04 Jun 2026

Process trace

Machine	CNC-03
Operator	R. Sathish
Inspection	INS-1183 · Fail

Schedule

A finite-capacity board of your real planned production dates.

Planned 946h vs 880h capacity

Order	Mon 03	Tue 04	Wed 05	Thu 06	Fri 07
PO-2041 Housing Bracket	CNC-03		CNC-03		
PO-2044 Shaft Collar		SAW-01		SAW-01	
PO-2049 Cover Plate		CNC-03			
PO-2052 Flange Ring			PRESS-02		
PO-2058 Spacer			MAN-02		

Suggested sequence

ROADMAP — not available yet

Design target: the agent proposes, you accept or reject.

PO-2049Thu → Tue

Frees CNC-03 before the PM window on Thu

PO-2052Wed → Thu

Priority HIGH and due 08 Jun

PO-2058Tue → Fri

Avoids a changeover between two different SKUs

Inputs read: 14 orders · 5 work centers · 3 planned maintenance WOs
Recorded per run: inputs, model, latency, cost

Accept sequenceReject

Enabled when the decision engine ships

- Dashboard
- OEE
- Production
- Schedule
- Operator
- Work Centers
- Materials
- Traceability
- Quality
- Maintenance
- Integrations

Maintenance

Keep assets running — schedule work orders, track condition and log downtime.

Work Orders | Assets | Downtime | Schedule

Open work orders
7

Assets down
1

Overdue PM
3

Downtime
1.6 h

Assets				
Asset	Work center	Status	Running hours	PM due
PRESS-02 · 60T press	PRESS	Down	4,812 h	96%
CNC-03 · 5-axis mill	CNC	Operational	3,190 h	74%
SAW-01 · Band saw	SAW	Operational	1,204 h	41%
QA-01 · CMM	QA	Maintenance	890 h	18%

Asset risk ranking ROADMAP — not available yet

Design target: risk scored from real downtime and service history.

1

PRESS-02

88/100

- 4 breakdowns in 30 days
- corrective-to-preventive ratio worsening

2

CNC-03

61/100

- recurring Degraded status after service

3

SAW-01

24/100

- no unplanned downtime in 90 days

4

QA-01

0/100

- insufficient history

Proposed work order

Asset

PRESS-02

Type

PREDICTIVE

Priority

HIGH

Scheduled for

Thu 06 Jun, 22:00

(outside the PO-2041 run)

Create work order

...

Dashboard

OEE

Production

Schedule

Operator

Work Centers

Materials

Traceability

Quality

Maintenance

Integrations

Integrations & API

ManufacturedOps is headless and GraphQL-first — this is what is genuinely live.

Federated workspace API

Live

<https://graphqlworkspaces.burdenoff.com/workspaces/gr>

```
query {
  manListProductionOrders(pagination: { limit: 10 }) {
    items {
      id
      orderNumber
      status
    }
  }
}
```

Planned connectors

SAP ERP

Planned

OPC UA machine data

Planned

MQTT broker

Planned

MRP demand sync

Planned

MCP server for AI agents

In progress

Typed tools over the plant, called through the same gateway and permissions you use.

work_centers · 5 production_orders · 5 operations · 2
material_lots · 3 inspections · 3 inspection_plans · 2
non_conformances · 5 assets · 4 maintenance · 3
downtime · 2 health · 1

35 domain tools · 4 resources · 2 prompts · 21 platform modules

- ✓ Read-only / destructive intent annotated on every tool
- ✓ Every call authorized at the gateway as your actor
- ⚠ Confirmation gate before destructive tools — not enabled yet

Package unpublished while ManufacturedOps is pre-launch.