



# Om Sai Industries

## Company Profile

**Unit 1: F-17 MIDC Waluj, Aurangabad**

**Unit 2: E-32 MIDC Waluj, Aurangabad**





# Om Sai Industries

## • Company Profile:

- Om Sai Industries is a Alkaline Zinc & Zinc Iron Plating Industry. The company was established in 2007 by Mr. Deepak Padalkar at Waluj MIDC Aurangabad, Maharashtra.
- **Unit-1** : Plot No. F-17 MIDC ,Waluj, Aurangabad
- **Unit-2** : Plot No. E-32 MIDC ,Waluj, Aurangabad
- Om Sai Industries has successfully implemented the Approved process of **Bajaj Auto Ltd, TATA Motors, Mahindra & Mahindra, Yamaha, Force Motor, John Deere, Piaggio, TVS.**
- The company is continuously growing and advancing its technology and to meet the global standards and to sustain the customers satisfaction.
- The company has received the grants from the Government body & implemented all the facilities required for safety of Environment.



- **New Project**

- **ECO Friendly Fully Automatic Scada controlled Alkaline Zinc Plating plant with Basket Passivation.**
- **Plating capacity 25mt per day.**

- **Vision, Mission & Values :**



- **Provide world class Plating facility in India.**



- **Continual Improvement**
- **Total elimination of waste**
- **Pollution free & safe Environment**



- **Transparent and customer based service**
- **Customer satisfaction**



- **List of Available Facilities**

- **Alkaline Zinc Plating Process**

- **Alkaline Zinc Iron Plating**

- **Trivalent Yellow Passivation with/w out top coat**

- **Trivalent Black Passivation with/w out top coat**

- **Trivalent Blue Passivation with/w out top coat**

- **Hydrogen De-embrittlement Process**



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- Plant Photos:





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- Plant Photos :





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- Plant Photos :





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- Scada Home Screen:

Movicon - [RunTime] - Demo mode Time elapsed: '0' min. - welcome screen

OSI Protovec 107 Rectifier 6 - AL-ZN 5 - No Current Applied

Auto : Manual : Fault : 15 : 06 : 29

**WELCOME TO**  
**Om Sai Industries Pvt. Ltd**

OSI

Designed and developed by Protovec Technologies Pvt. Ltd for Komal Chemiequip Pvt. Ltd

Protovec

Overview  
Part Entry  
Alarms  
Trends  
Report  
Settings  
Tank Details  
Rectifier  
Dosing

Protovec

2021-06-19 3:06:17 PM The I/O Communication Driver 'MELSEC-QTCP' has been started... CAP NUM SCRL 1.5Gb(989Mb)



## • Loading Screen:

Movicon - [RunTime] - Demo mode Time elapsed '70' min. - nextloadentry

OSI Protovec 107 W7 Manual Backward Without Lift Lower Auto : Manual: Fault : 15 : 04 : 12

### Next Load Entry

Part Number: 26\*12.5\*2.5 Refresh Search

Part Name: Washer

Client Name: STARWAYS

Area/Part: 0.08 sq.dm Range (0-500 sq.dm.)

Weight Per Part: 8 gm Range (0-1000 gm)

Total Weight: 100 kg Range (0-500)

Current Density: Anodic Cleaning: 0.25 A/dm2 Alkaline Zinc: 0.50 A/dm2

Calculated Current - Nextload: 0265 amps Range (0-900 Amps.) 0531 amps Range (0-900 Amps.)

Load Type for Line 1: 3 Load Type for Line 2: 2

**Line 1 Load Type Selection**

- 1 = Descaling With 50%
- 2 = Descaling With 30%
- 3 = Without Descaling With 50%
- 4 = Without Descaling With 30%

**Line 2 Load Type Selection**

- 1 = Blue Passivation With Top Coat
- 2 = Yellow Passivation With Top Coat
- 3 = Black Passivation With Top Coat
- 4 = Blue Passivation Without Top Coat
- 5 = Yellow Passivation Without Top Coat
- 6 = H2D Only Nitric And Dryer

Calculate Download To PLC Part Master

2021-06-19 2:54:46 PM You're running in Demo Mode : time elapsed = '70' min. (max 120) CAP NUM SCRL 1.5Gb(1.1Gb) i

Protovec

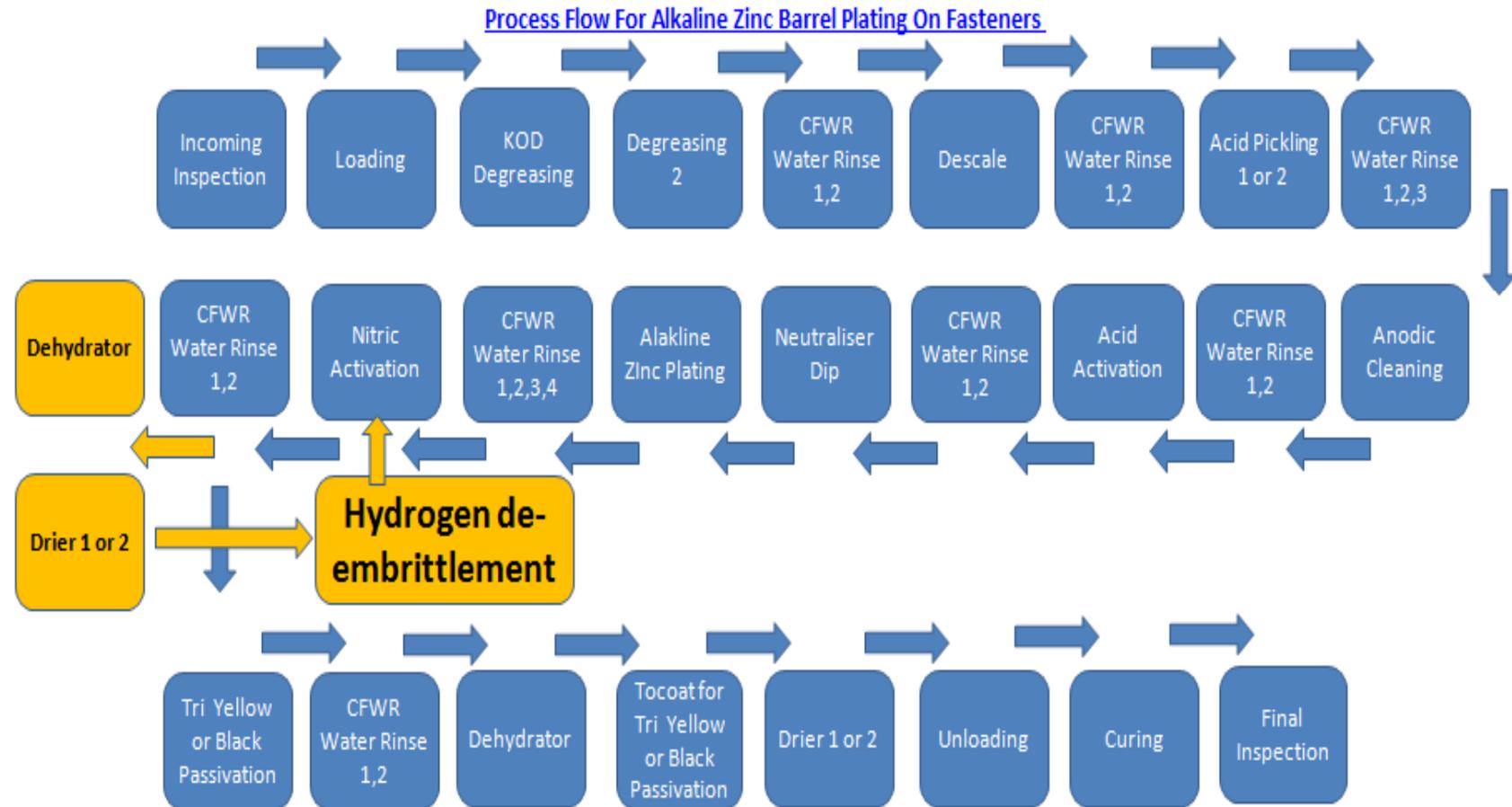
- Loading Weighing Balance:



- Weighing scale attached to loader to load accurate weight.
- Interlocked with the program



## • Process Sequence:





- Automatic Loading System:



- Plating Tank:



- Total 16 Plating stations
- 14 Alkaline Zinc
- 2 Alkaline Zinc Iron

- **Process Parameter Display :**



- **Temperature controller with visual & Alarm for all tanks**
- **Level Indicator with Alarm both main Tank & Oil skimmer tank of Degreasing**
- **Oil skimmer with continuous circulation to remove floating oil from Degreasing Tank**
- **Filter Unit**



- **Process Qualification Board:**

STAGE 7 DESCALING	
TANK VOLUME	1200 LTR
CHEMICAL NAME	GINDOX 281
CONCENTRATION	100 TO 150 GM/LTR
TEMP.	60 TO 80 °C
DISCARD FREQUENCY	MONTHLY (IF BATH COLOUR TURN BROWN)
DISCARD DATE	
DIP TIME	4 TO 5 MINT

- **Additional Process in Pretreatment Line Decaling bath to remove heavy scale of heat treated parts & burnt oil parts**

- Acid Tank Filter:



- **Continuous Filtration system to remove floating smut & Iron from Acid Tanks**



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- Conveyor Oven:





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- Oil Skimmer:



- **IGBT Rectifiers:**



- 1) **Individual Rectifier for each tank**
- 2) **All rectifier advance IGBT with more Scada compatibility.**
- 3) **Alarm system if Trip or variation in current set value.**
- 4) **Fully sealed cabin for rectifier with 4AC unit with the capacity 1.5 ton of each.**



- Dozing Pump With Level Indicator:



## Plating Tank Filter:



- Individual Filter Unit for each Tank
- All Filter with Pressure gauge.

- **Passivation & Topcoat tanks controls:**



- **Online pH Meter with display & Alarm system if the parameter goes out of tolerance auto dosing of Nitric.**
- **All tanks have the heaters to maintain temperature with controller with visual & Audio Alarm System.**
- **All tanks with level sensor & Indicator with visual display & Alarm.**



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- Chiller Unit for Plating Tank for continuous cooling with capacity of 15 ton of each with Auto controlled Temperature with Alarm system:





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- Online Centrifugal Dryer with Automatic Temperature Controller with Visual Alarm :





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- Dehydrator between Passivation & Top coat to avoid Contamination in Top Coat Tank





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- Auto Dosing of Chemical for Passivation & Top coat Tank with Level Sensor in Dosing Tank





- **Filtrations for Passivation & Topcoat Tank:**



- **All Passivation & Top Coat Tank with Filter Unit for Continuous Filtrations**



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- RO Plant Plus Mix Bed:



- **Scrubber:**



- **Separate scrubbers for Alkaline & Acidic Fumes with the capacity of 15k CFM**



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## • Customers :





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- End Customer :



THE WORLD'S  
FAVOURITE  
INDIAN



**SIEMENS**  
*Ingenuity for life*



Mercedes-Benz





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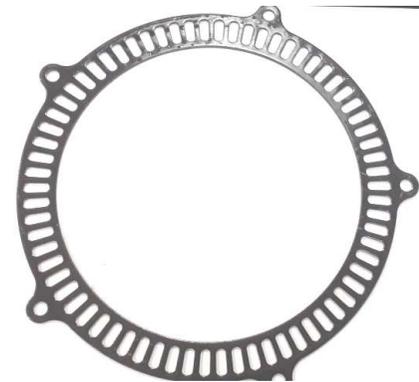
- Part Photos





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- Part Photos





- Part Photos





- Part Photos





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- Part Photos



## • Unit-1 : System & Quality Control



Process parameter control graphical



ETP Plant



Specially designed quality inspection table



Online Ph meter & Timer



Online Ph meter & Timer for Trivalent Black Passivation



Passivation line



Hydrogen de-embrittlement oven

- Unit-1 Available in-house testing facilities

- Salt spray chamber
- Laboratory Setup
- NDT and DT thickness tester
- Electronic 3 digit weighing balance
- Hull cell testing
- Hydrogen de-Embrittlement oven
- Go/No-go thread gauges





# Om Sai Industries

## Awards & Achievements





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*Thank  
you*

