



**TSP Company Profile – Sept 2019**



# Introduction

# About the Company

## History

When first established in 1983, **PT. TRI SINAR PURNAMA** was a small foundry which produced malleable iron pipe fittings with capacity only 15 tons monthly. Equipped with modest machinery and not more than 100 employees.

## Today, after more than 30 years...

**1.7K**

employees

**12K**

tons annual  
capacity

**60K**

m<sup>2</sup> total covered  
area (2 sites)

**>20**

target export  
countries

**80%**

domestic  
market share

*Located in Central Java*



# Vision and Mission

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To be the leading producer of Pipe Fittings and other Casting products in the world that inspires and gives benefits both the environment and stakeholders



**VISION**

**MISSION**



Continuous improvement of mutually beneficial relationships with customers and employees by:

- Satisfaction through providing optimal service and honest relationship with customers
- Mutually beneficial partnership with supplier by maintaining honesty and transparency
- Providing comfortable working environment for employees to sharpen their skillset and competence
- Developing a healthy operation to support the achievement of customer satisfaction

# Market Coverage

TSP covers four regions, exporting to more than 18 countries and covers more than 7 cities in the domestic market

## International Market



Malaysia



Singapore



Turkey



USA



UK



Germany



France



Argentina



Philippines



Colombia



Poland



Canada



Italy



Saudi Arabian



Spain



Lithuania



Timor Leste



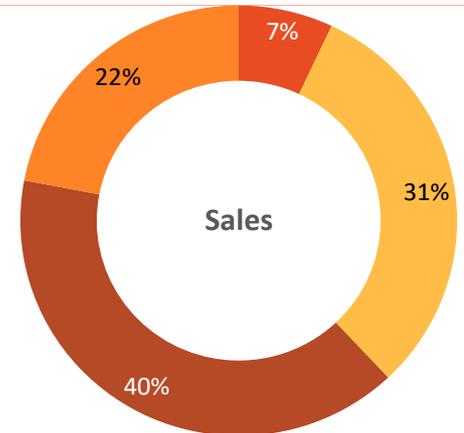
Bulgaria

## Domestic Market



## Contribution by Regions

- Asia
- America
- Indonesia
- Europe



# Project References

TSP products have been used to complete over hundreds of projects both domestically and internationally

## International Projects



Marina Bay



Grand Plaza



Jusco

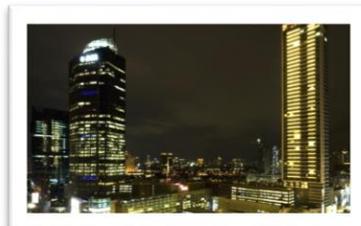


Rivervale Condominium

### Others include

Singapore Turf Club, Harbour Front Building, Orchard Scott Condominium, Bencoolen Hotel, Grand Link Plaza, World Trade Centre, Appolo Hotel (Singapore)klcc Condominium, The Summit, Giant, City Square, Pontian Plaza, Time Square, Ibm, U-mall, Mca Building, Putri Park Hotel, YKK Building, Carefour, The Store, Jusco ( Malaysia), Etc.

## Domestic Projects



Grand Indonesia



Pakubuwono Apartment



Senayan City



Gandaria City

### Others include

Sudirman Park, Grand Indonesia, Pallazo Apartement , The Summit, Sogo Plaza Indonesia, Bellagio,ciputra World, The East Mega Kuningan, Sudirman Palace, Pakubuwono Apartemen, Pacific Place, Pondok Indah Office 1& 2, Mall Of Indonesia, Regatta Apartemen, Living World Alam Sutra, Swissbell Hotel Bali, Aston Paramount, Blitz Cetral Park, Amaris Hotel, Green Park View, Carcadine Hotel, Menara Kebon Jeruk, Graha Modern Cikini, Air Port Lombok, Casablanca, Gedung Mahkamah Agung, Sinarmas World School, Mutiara Bekasi, Bmkg Office, Unj, Rawamangun, Gbi Sentul, Etc.

# Certifications



ISO Certificate since 1999



SNI Certificate since 1999



PSB Certificate since 1999



TSE Certificate since 2003



EN 10242 since 2004



C-UL-US Certificate since 2009



Low Lead Cert. since 2009



FM Certificate since 2014



UPC Certificate since 2015



DVGW Cert since 2017



9001:2015  
ISO 9001 : 2015 Cert  
(Quality Management System)



APPROVED  
FM Approvals for TSP  
Product with JIS Standard



# Products

# Range and Standard of Products

## Range of Products

**PT. TRI SINAR PURNAMA** produces  and  brand Malleable Iron Pipe Fittings in **black casting and hot dipped galvanized**

Other than fittings, **PT. TRI SINAR PURNAMA** also produce various of casting products such as **Jacknut, Wingnut, Clamp Saddle, Starting Handle, Cup PLN** and other products by special order from customers with competitive and reasonable price

## Standard of Products

	BRITISH	EUROPEAN	JAPAN	AMERICAN
<b>DESIGN</b>	BS 143 & 1256	EN 10242	JIS B 2301	ANSI/ASME B16.3 ANSI/ASME B16.14 ANSI/ASME B16.39
<b>THREAD</b>	BS 21	ISO 7-1	JIS B 0203 JIS B 0202	ANSI/ASME B1.20.1
<b>MATERIAL</b>	BS EN 1562	EN 1562	JIS G 5702	ASTM A 197
<b>ZINC COATING</b>	BS 143 & 1256	EN 10242	JIS B 2301	ASTM A 153
<b>REINFORCEMENT</b>	BANDED	BEADED	BANDED / PLAIN	BANDED

# Products Portfolio

## Pipe Fitting Products



## Other Casting



# New Innovations

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PT. Tri Sinar Purnama continuously adds new products and new technology as arsenals to improve the satisfaction of our customers

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- Automatic Core Machines
- Automatic Molding Machines
- Seal Core Machine for size 1/4"
- Automatic Leakage Test Machine
- Universal Testing Machine
- New Technology of Dust Collector
- CNC Machines
- Automatic Threading Machines
- Union Machines
- Automatic Single Packing Machine

## NEW TECHNOLOGIES

- Gas Fittings
- Slip on Fittings
- Conduit Fittings
- Compensator
- Malleable Range

## NEW PRODUCTS



# Production Process

# Production Process I



## Pattern Making

### Equipment:

- CNC (VMC 850L & GVX-1000) (*2 units*)
- Drilling Machine (*3 units*)
- Lathe Machine (*3 units*)
- Grinding Machine (*3 units*)



## Pattern Preparation

### Equipment:

- Grinding Machine (*4 units*)
- Drilling Machine (*1 unit*)
- Lathe Machine (*1 unit*)
- Drilling and Milling Machine (*1 unit*)



## Core Making Process

### Equipment:

- Core Furnace (*26 units*)
- Core Machine (*4 units*)



# Production Process II



## Molding Sand Preparation

### Equipment:

- Sand Mixer Machine with Conveyor (2 units)



## Molding Process

### Equipment:

- Casting Pressing Machine (15 units)
- Jolt Squeeze Machine (36 units)
- Shot Blasting Machine (7 units)



## Melting and Casting Process

### Equipment:

- Cupola with capacity 8 Tons per hour (2 units)
- Cupola with capacity 5 Tons per hour (2 units)
- Dust Collector (3 units)



# Production Process III



## Annealing Process

### Equipment:

- Annealing Machine (*2 units*)



## Grinding Process

### Equipment:

- Grinding Machine (*19 units*)



## Shot Blasting Process

### Equipment:

- Shot Blasting Machine (*5 units*)
- Poon Machine (*8 units*)



# Production Process IV



## Galvanizing Process

### Equipment:

- Hot Dip Galvanizing Batch (*5 units*)
- Gasifier (*1 unit*)



## Tapping Process

### Equipment:

- Manual Tapping Machine (*37 units*)
- L/R Tapping Machine (*1 unit*)
- Big Tapping Machine (*5 units*)
- Automatic Tapping Machine (*10 units*)



## Lathe Process

### Equipment:

- Lathe Machine (*29 units*)
- Injection Machine (*1 unit*)
- Tapping Machine (for Union product) (*8 units*)



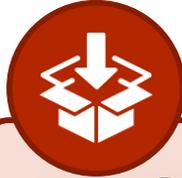
# Post Production Process



## Drying Process

### Equipment:

- Centrifugal Dryer Machine (*7 units*)
- Barrel Dryer Machine (*5 units*)



## Packing Process

### Equipment:

- Laminating Machine (*15 units*)
- Digital Weight Scale (*5 units*)
- Hand Pallet (*2 units*)



## Finished Goods Warehouse

### Equipment:

- Wrapping Machine (*1 unit*)
- Hand Pallet (*2 units*)



## Loading to Container

### Equipment:

- Forklift (*2 units*)





# Quality Control

# Quality Control I

## Sand Inspection

### Method of Inspection

Strength and density of the sand are checked by using compactibility testing machine

### Frequency

Every 30 minutes during the process



## Hit Test

### Method of Inspection

Break apart the sample from each type of casted product and observe the fracture visually

### Frequency

Three period per operator per day



## Tensile and Elongation Test

### Method of Inspection

Test bar from each melting line are pulled by tensile test machine with min tensile strength of 350 N/mm<sup>2</sup> and min elongation 6%

### Frequency

Every unloading process



# Quality Control II

## Spectrometer Test

### Method of Inspection

Test piece from each furnace are tested by using spectrometer machine at minimum 5 holes on the surface

### Frequency

Four times a day



## Pressure Test

### Method of Inspection

Samples are tested with pressure test machine to test the strength of product (especially for other casting product)

### Frequency

One time on early process of casting



## QC Sorting

### Method of Inspection

100% products are tested visually by comparing with available control samples

### Frequency

After the production process



# Quality Control III

## Zinc Coating Thickness Test

### Method of Inspection

Every type of product that being processed from every furnace is tested by using Elcometer with 10 spots of each sample and minimum zinc thickness 65µm

### Frequency

During the process



## Dimensional Test

### Method of Inspection

Minimum one piece per type is tested with calibrated Vernier caliper and thickness tester to ensure the dimension are according to the standard required

### Frequency

According to the order instruction



## Alignment Test

### Method of Inspection

Check the alignment accuracy of each product with max standard deviation of 1,5 mm per 300 mm or 1 mm per 200 mm

### Frequency

3 pcs from each machine - every 30 minutes during process



# Quality Control IV

## Thread Test

### Method of Inspection

Thread of products from each machine are tested using plug or ring gauge to ensure they meet the standard

### Frequency

3 pcs from each machine every 30 minutes during the process



## Leakage Test

### Method of Inspection

100% of products are tested with minimum air pressure of 7 bars over 3 seconds

### Frequency

Before packing



## AQL Inspection

### Method of Inspection

Sample from each type of packing product is inspected for the visual of product, gauge, alignment and accuracy of packaging

### Frequency

Before shipment





Contact Us

# Contact Us

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End of Presentation