PT Sarana Sinergi Optima

COMPANY PROFILE

Engineered steelwork, machined to fit, installed on time.

FABRICATION · CONSTRUCTION · MACHINING · PIPING & PLUMBING

2026 EDITION
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A steel fabrication partner for Indonesian industry.

PT Sarana Sinergi Optima works in fabrication, construction, repair services, special tooling, and machining. Our head office is in South Jakarta and our production workshop is in Setu, Bekasi Regency — giving customers a single partner for engineered steelwork, on-site installation, and machine-shop support.

HEAD OFFICE

South Jakarta
DKI Jakarta, Indonesia

PRODUCTION WORKSHOP

Setu, Bekasi Regency
West Java, Indonesia

Ø1250 mm
Lathe swing capacity

3000 mm
Max turning length

13
Service lines under one roof

12+
Industrial clients served

What we commit to.

VISION

Prioritising customer satisfaction through on-time delivery and the highest quality standards.

MISSION

Continuous innovation and improvement across systems, people, and partner relationships.

THE SSO APPROACH

On-time delivery

Schedule is treated as a commitment. Planning, progress tracking, and honest reporting keep every job on its promised date.

Highest quality standard

Certified welders, calibrated machines, and documented inspection at every hand-over.

One roof

Cutting, welding, assembly, machining, piping, and mechanical-electrical work handled by one team — fewer interfaces, less risk.

In-house machining

A full machine shop backs every fabrication job: shafts, rollers, housings, and tooling made and reworked on site.

Cutting, welding, assembly, machining — under one roof.

Thirteen service lines, delivered by one team from the Setu workshop and on the customer's site.

01

Machining & Turning

Turning, boring, and grinding of shafts, rollers, and cylindrical parts.

- Lathe work up to Ø1250 mm × 3000 mm (Shenyang CW62125Q)
- CNC milling on Shenyang i5M4 for precision parts and tooling
- Boring, facing, threading, and cylindrical grinding
- One-off parts and small production batches

02

Roller & Pulley Recondition

Resurfacing, re-lagging, and balancing of drums and large rollers.

- Shaft resurfacing and undersize / oversize repair
- Drum re-lagging — plain, diamond, or ceramic
- Static and dynamic balancing
- Bearing housing and lock-ring replacement

03

Fabrication & Welding

Steel cutting, certified MIG/TIG welding, and heavy structural assembly.

- Plate and section cold cutting, rolling, and forming
- Certified MIG and TIG welders
- Heavy structural assembly and jig fit-up
- Surface preparation and industrial coating

04

Mechanical & Electrical

Panel wiring, cooling tower, compressor, hydrant, and lighting installation.

- LV panel building and field wiring
- Cooling tower, compressor, and hydrant systems
- Factory and area lighting installation
- Process and utility piping tie-ins

05

Piping & Plumbing

Process piping, pump sets, and plumbing installation.

- Process piping fabrication and installation
- Pump set mounting and alignment
- Clean-water and waste-water plumbing
- Pressure testing and commissioning

06

Machine Repair & Overhaul

On-site diagnosis and repair of injection, die-casting, and production machines.

- On-site diagnosis of injection and die-casting machines
- Hydraulic and servo system repair
- Mechanical overhaul and geometry re-alignment
- Spare-part fabrication and replacement

07

Injection Moulding

Plastic injection moulding and injection-machine equipment support.

- Plastic injection up to 200-tonne clamp (FCS HN-200SV)
- Trial, sampling, and small-batch runs
- Injection-machine trading and reconditioning
- Mould setup and equipment support

08

Equipment Support & Commissioning

Motor, gearbox, and drive-unit supply, alignment, and commissioning.

- Motor, gearbox, and drive-unit supply
- Coupling and shaft alignment
- Test run and performance verification
- Documentation and handover

09

Relayout, Handling & Recondition

Line relocation, machine rigging, handling, and gearbox reconditioning.

- Production line relocation and re-layout
- Machine rigging, skidding, and lifting
- Gearbox teardown and reconditioning
- Reinstallation and re-commissioning

10

Steel Structure Erection

Site erection of fabricated steel frames, portal frames, and mezzanine structures.

- Portal frame, truss, and multi-storey steel erection
- Mobile-crane lifting with bolted / welded connections
- Purlin, bracing, and roof / wall cladding installation
- Survey, plumbing, and final torque verification

11

Conveyor System Fabrication

Design and build of complete belt conveyor units — structure, idlers, pulleys, and drive.

- Conveyor structure, gallery, and support fabrication
- Idler sets, drums, and pulley assembly
- Drive unit, gearbox, and take-up mounting
- Shop assembly, trial run, and transport

12

Heavy Lifting & Machine Installation

Lifting plans, rigging, and precision setting of heavy machinery onto foundations.

- Lifting plan, load calculation, and rigging design
- Single and tandem mobile-crane operations
- Skidding, jacking, and precision alignment
- Anchor bolting, grouting, and levelling

13

Cooling Water System

Cooling tower, pump skid, and process piping installation for plant cooling water.

- Cooling tower setting and basin connection
- Pump skid, motor, and coupling alignment
- Carbon-steel process piping, valves, and strainers
- Flushing, pressure test, and commissioning

A machine shop behind every fabrication job.

Ø1250 × 3000 mm

MAXIMUM TURNING ENVELOPE · SHENYANG CW62125Q LATHE

Lathe

Ø1250 × 3000 mm

SHENYANG CW62125Q

Turning cylindrical components up to 3 metres long.

CNC Milling

1200 × 600 mm

SHENYANG I5M4

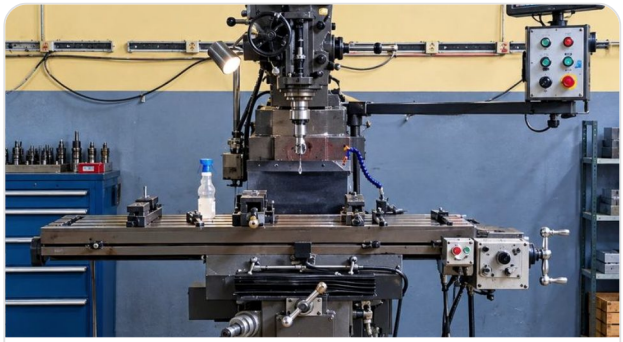
Precision milling for parts and special tooling.

Injection Moulding

200 tonne clamp

FCS HN-200SV

Plastic injection moulding up to 200-tonne clamping force (servo hydraulic).



Turret Mill

3-axis readout

JET · DRO

Manual turret milling with digital readout for tooling and one-off parts.

Conveyor equipment, built to spec.

Bulk-handling components fabricated at the Setu workshop, ready to install on new and existing lines.

MATERIAL FLOW PROTECTION

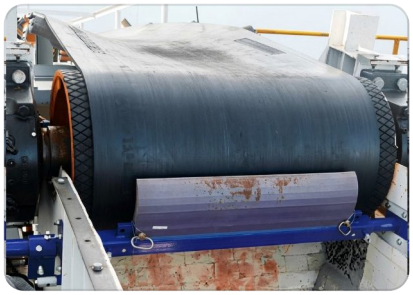
Magnetic Separator

Captures tramp metal from the material flow before it damages crushers and belts.

BULK LOADING

Telescopic Chute

Dust-free bulk loading with an adjustable extension length.



BELT MAINTENANCE

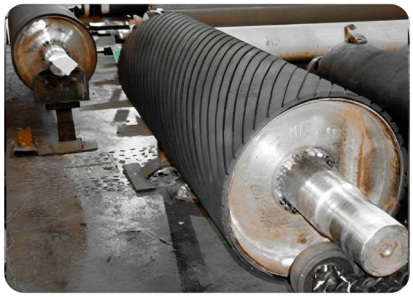
Belt Cleaner

Primary and secondary scrapers that keep the belt clean and long-lived.

SIZE SEPARATION

Mechanic Screen

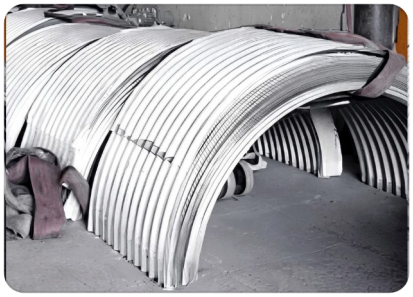
Size separation built from impact-resistant steel.



CONVEYOR DRIVE

Drum Pulley

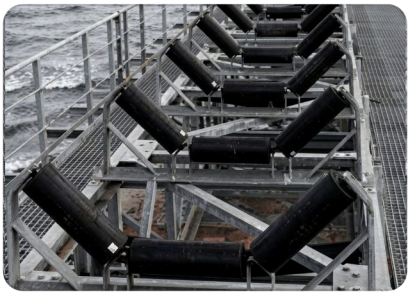
Drive and tail pulleys with precision lagging and balancing.



WEATHER PROTECTION

Cover Conveyor

Galvanized curved covers shield the load from rain and wind.



BELT SUPPORT

Frame-Roller-Idler

Carrying, impact, and return idler sets for every belt width.

PROCESS WEIGHING

Belt Scale

Continuous in-motion weighing for process control.

COMPONENT FABRICATION

Fabricated Idlers

Precision-fabricated idler frames and brackets, ready to install for any conveyor configuration.

Trusted by leading industries.

A selection of the companies across Indonesia's manufacturing, mining, and infrastructure sectors that SSO supports.

Astra Otoparts
AUTOMOTIVE

GS Battery
BATTERY

Polytron
ELECTRONICS

WIKA
CONSTRUCTION

Yuasa
BATTERY

Wavin
PIPING SYSTEMS

Cosmos
HOME APPLIANCES

TOA
PAINT & COATINGS

JPC
MANUFACTURING

Pupuk Sriwijaya Palembang
FERTILIZER

Mifa Bersaudara
COAL MINING

Nusa Cipta Sarana
MINING CONTRACTOR

John Crane
ROTATING EQUIPMENT

Tenma
PLASTIC INJECTION

Sintokogio
FOUNDRY EQUIPMENT

Tunas Alfin
PACKAGING

Meiloon
AUDIO ELECTRONICS

Adyawinsa
METAL STAMPING

Sinar Jatimulia Gemilang
MANUFACTURING

Toyoplast
PLASTICS

Patco
AUTOMOTIVE PARTS

DIFFERENT INDUSTRIES. ONE STANDARD OF DELIVERY.

Every partner is served from the same Setu workshop, to the same schedule and quality standard.

SSO

GET IN TOUCH

Building what moves Indonesia forward.

CONTACT

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