



# PT HORIGUCHI ENGINEERING INDONESIA



## GENERAL CATALOGUE COMPANY PROFILE 2025



ISO 45001



ISO 14001



ISO 9001

[www.horiguchi.id](http://www.horiguchi.id)

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## FOREWORD



Prioritising customers needs with the best service technology innovation  
& the most skilled operators presented in Indonesia.

Horiguchi is dedicated to consistently providing the highest quality,  
enabling customers, and assisting customers in any field.

Now, times seem to be changing from an era of competing each other to one of prospering and cooperating together, keeping in harmony with nature.

Recognizing our responsibilities as industrial servicemen, we devote ourselves to foster progress, to generate welfare of the society and to develop future culture of the world.

We believe that reconditioning and/ or re-manufacturing of engineering services backed up with our long accumulated experience and high technology are one of the most noble work absolutely necessary in our lives.

Our company, therefore, aim to make the world which is already rich abundant goods, a little richer, fairer and better place for everybody to live in, through our reliable engineering service work based on our belief of mutual co-existence and co-prosperity.

**KIMIKO KASUYA**

# COMPANY PROFILE

## Business Scope

By industrial hard chrome plating, thermal spray coatings (Wire, Powder Ceramic-Rokide Rod and HVOF) and specialized welding (Cast Iron, SUS, Stellite, Bronze, Aluminums, Copper, etc.), precision machining (inclusive In-Situ Crankshaft machining process, Engine Block line boring and Liner Counter bore machining process), we overhaul, carry out repair/ maintenance/ re-manufacturing/ re-standardization of all types of mechanical components/ parts, and we also fabricate tailor-made machinery/ device/ tool/ structure/ parts.

- Industrial Hard Chrome Plating of hard facing for all ferrous and non-ferrous metal except Gold, Silver and Copper.
- Thermal Spray Coatings of hard facing (Wire Metallizing, Powder and Ceramic-Rokide Rod and HVOF)
- Specialized Welding by Arc, Gas, MIG, TIG and Sub-merged Arc, Manual and Automatic.
- Overhauling modification, conversion and installation of engine, equipment and machinery for maintenance.
- Design and fabrication of special equipment, vehicles, tools, structure and machinery.
- After sales service agencies for engine/ equipment/ machinery makers.
- Sales of diesel engine, generator, compressor, pump, propeller (CPP), deck machinery, stamping press, die casting machine and/or those spare parts.



PT. Horiguchi Engineering Indonesia  
Workshop and Office

## Company Name

### PT. Horiguchi Engineering Indonesia

#### Office and Workshop Address

Karawang International Industrial City (KIIC)  
Jalan Maligi Raya Lot D-1A, 41331 Karawang  
West Java, Indonesia  
Tel. : +62-21-890-1612 / 3 / 4 / 4235  
Fax. : +62-21-890-1611 / 2540  
Email : adminsales@horiguchi.co.id  
Website : www.horiguchi.id

#### Date of Incorporation

February 2<sup>nd</sup>, 1994

#### Capital

USD 5,200,000.-

#### Site Area

Total Area : 7,000 m<sup>2</sup>  
Office/ Canteen/ Store : 1,008 m<sup>2</sup>  
Washroom/ Laboratory : 2,268 m<sup>2</sup>  
Workshop Area : 2,268 m<sup>2</sup>

#### Board of Directors

Mrs. Lirio Yuriko : President Commissioner  
Gimeno Kasuya : Commissioner  
Mr. Yasushi Araki : Commissioner  
Mr. Hisao Shuto : President Director  
Mrs. Lily M. Pribadi : Director  
Mr. Tetsuya Setagawa : Director

#### Shareholders

Mrs. Lirio Yuriko Gimeno Kasuya : 67.31%  
Koka Chrome Industry Co., Ltd. : 19.90%  
PT. Sinar Mas Tunggal : 6.73%  
PT. Chiyoda Kogyo Indonesia : 6.06%

#### Number of Employees

94 Persons (as August 2025)

NPWP Badan : 01.081.629.6 – 055.000  
NPWP PPh : 001.081.626.6-408 001

#### Bankers

Maybank – IDR 2-232-00018-1  
(KIIC Karawang) USD 2-232-00111-0  
  
Resona Perdania – IDR 01031837.002  
(Sudirman, Jakarta)  
  
Mandiri – IDR 173-00-0483283-9  
(KIIC Karawang) USD 173-00-0231235-4  
  
Jtrust – IDR 2100540493  
(KIIC Karawang) JYP 1100022053

# HARD CHROME PLATING

## HARD FACING CHROME PLATING

At the request of Japanese Manufacturers operating in Indonesia, we installed 27 years ago the largest Industrial Hard Chrome Plating Facilities in the whole of South East Asia which can provide hard chrome plating with hardness level of 60-64 HRC. Our Industrial Hard Chrome Facilities are equipped with scrubbers and PHIC Control Panel, etc. to treat Chromic Acid liquid and waste water, which make the facilities completely **Free of Pollution**.

Our facility is the one of the best in Indonesia that can provide Special Hard Facing Chrome Plating that increases lifetime, provides anti-corrosion, wear resistance and durability of press dies used by the automotive industries. It is proven that our high quality Hard Facing Chrome technology with Plating Hardness range of HRC64 (HV800/HS88) has generated Hard-Facing-Chromed press dies, which stand more than 100,000 stamping strokes. Proudly and successfully, we have been re-hard chroming press dies of the majority of the car manufacturers in Indonesia since 1994.

Our licensior, Koka Chrome Industry Co. Ltd., Tokyo, has 70 years of history and is the founder and originator of MAT specification for various roller of Printing, Plastic and Paper Industries.

POLLUTION FREE INDUSTRIAL HARD  
CHROME PLATING FACILITY  
FOR ENVIRONMENT AND NATURE

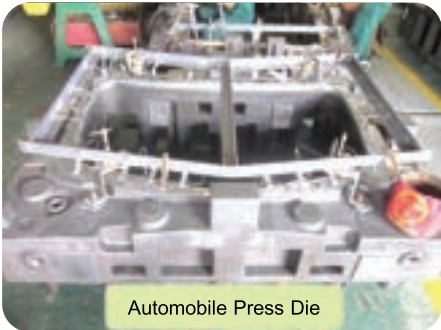


Waste-water Treatment System

## AUTOMOBILE BODY PRESS DIES



Automobile Press Die



Automobile Press Die



Automobile Press Die

## IRON STEEL & STEELWORKS EQUIPMENTS



Piston Rod Re-Hard Chrome Plating

Iron Steel Industries require high quality of hard chrome plating to increase life time for parts or equipment such as rollers, stabilizers, supporters, pistons, etc. that are producing steel sheets, plates, pipe and tubes.

# HARD CHROME PLATING

## PAPER, PLASTIC AND PACKAGING / OTHER MANUFACTORIES

Industrial Rollers are often used by companies which produces plastics, pulp and paper, packaging, rubber, carpet, or film products. The rollers are required to be extremely hard, wear resistance, and heat proof, in order to produce smooth and seamless profile of the products. Chrome plated industrial rollers have to be finished by cylindrical grinding process.



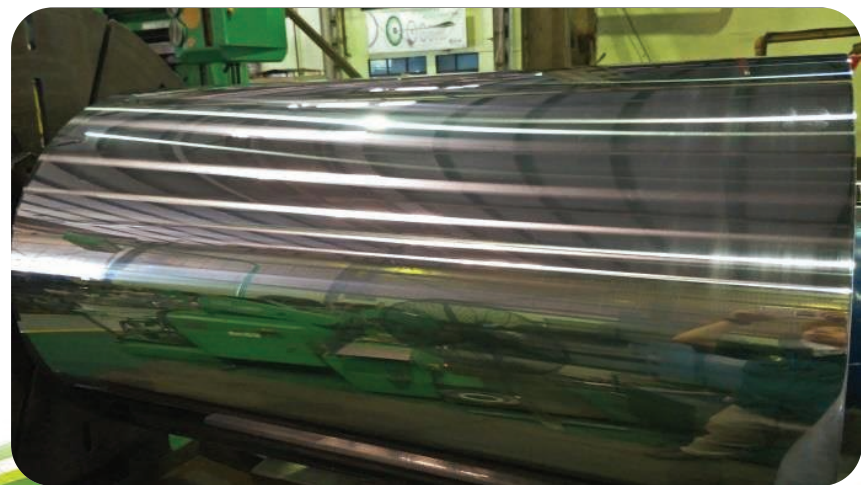
Hard Chrome Plated Roll



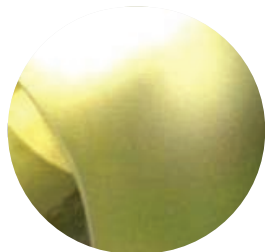
Supporter Cylinders [Ø 150 mm x 110 L mm]



Ball Valve [20 Inch]



Cooling Roll Hard Chrome Plating [Ø 900 mm x L 1,400 mm]



Hard Chrome Plating  
Hardness: 60 ~ 64 HRC

## CHROMED SUPER MIRROR FINISHING

Polishing and buffing are finishing processes for smoothing a work-piece's surface using an abrasive and a work wheels or a leather strop. This processes is required to produce smooth, mirror-like bright surface of parts.

### Application:

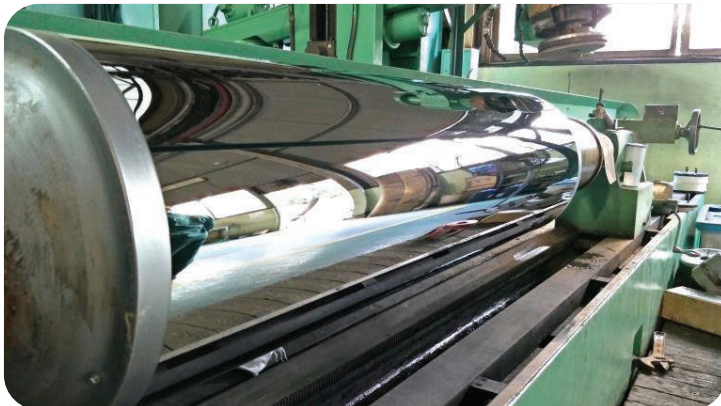
- Plastic Industry
- Rubber Industry
- Packaging Industry
- Film Industry
- Carpet Industry
- Paper Industry



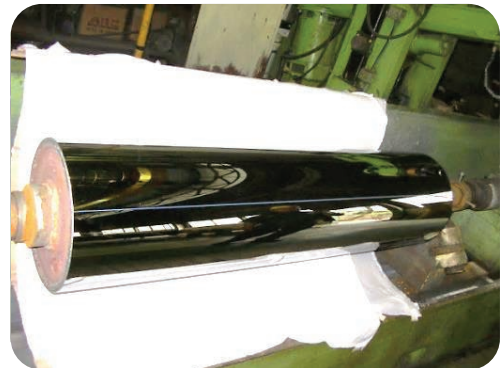
Roughness Ra 0,010 ~ 0,020  $\mu\text{m}$



Support Roll Super Mirror Finishing



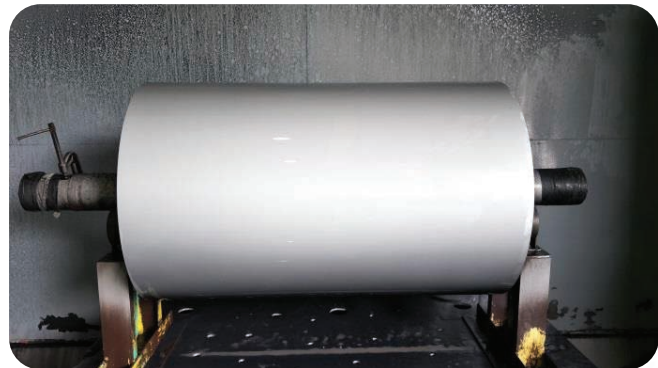
Roll Super Mirror Finishing



Cylinder Roll Super Mirror Finished

## CHROMED FULL MATTE FINISHING

Full matte finish is a non-glossy surface finishing using the method of wet blasting or water jet spraying. It is applied to a chromed roll which rough surface finish is required.



Cooling Roll Full Matte Finished

# THERMAL SPRAY COATING

## THERMAL SPRAY COATING

### H.V.O.F. (High Velocity Oxygen Fuel) Thermal Spray Coating

Continuous combustion of oxygen and fuel gases is produced by the Jet-Kote spray gun. It accelerate and project powdered coating materials into substrate at high velocity to form quality coatings. With particle velocity at Mach 3-5 and combustion flame temperature at 3,100 °C, this system produces extremely hard, dense and tightly bonded coatings suitable for applications of parts used in high pressurized environment (up to 20,000 psi), such as oil and gas industry. Excellent smooth finishing is achievable due to its low porosity level.

#### Characteristics:

- No distortion caused by spray process
- Possible to spray extremely hard coating
- Coating hardness up to HV 1,250 ( $\pm$  74 HRC)
- Bonding strength:  $\pm$  1,900 kg/cm<sup>2</sup>
- Coating thickness:  $\pm$  0.05 ~ 0.25 mm
- Porosity: Less than 0.5%

#### Application:

- Turbine Blades
- Galvanized Rolls
- Refining Rolls
- Can Rolls
- Paper Rolls
- Piston Rods
- Valve Gates
- Ball Valves
- Pump Plungers



### Ceramic Rod (ROKIDE) Spraying Process

This process uses special rods produced by Norton Co., USA. Materials with various high concentration of Cr<sub>2</sub>O<sub>3</sub>, ZrO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, and ZrO<sub>2</sub> – SiO<sub>2</sub> are available to produce high quality, dense coating to achieve excellent wear and corrosion resistance, anti-static and to be utilized as thermal barrier.

#### Characteristics:

- No distortion caused by spray process
- Coating thickness: 0.25 ~ 1.00 mm
- Bonding strength: 100 ~ 150 kg/cm<sup>2</sup>
- Porosity level: 0.3 ~ 0.5%
- Only rod formed ceramics can be sprayed by this process

#### Application:

- Step Cones
- Sheaves
- Wire Guide Rolls
- Capstan Ring
- Piston Rods
- Mechanical Seals
- Plunger Bushes
- Impeller Rings

# THERMAL SPRAY COATING

## Wire Metalizing Process

This is the fastest and most common process to deposit metal and metal alloy coating using wire at low temperature.

### Characteristics:

- No distortion caused by spray process
- Possible to spray thick coating
- Coating hardness HV 400 ( $\pm 40$  HRC)
- Bonding strength:  $\pm 200 \sim 400 \text{ kg/cm}^2$
- Ferrous and non-ferrous material
- Porosity: 8 ~ 20%

### Application:

- Hydraulic Press Rams
- Bearing Shafts
- Turbo Charger Cases
- Crankshafts
- Exhaust Valve
- Propeller Shafts
- Propeller Blade
- Wire Drawing Drums
- Oilfield Mandrels



## Powder Spraying Process

Self-fluxing alloy powder of nickel base, cobalt base, includes tungsten carbide can be sprayed by this process. Further treatment by fusing produces extremely dense and metallurgical bonded coating. This coating produces excellent wear and corrosion resistant to the surface. The coating hardness produced can achieve HV 300 ~ 1,000 (30~ 75 HRC).

### Characteristics:

- After fusing, coating is non-porous
- Distortion to base material may occur
- Coating thickness: 0.5 ~ 2.0 mm
- Bonding strength:  $\pm 200 \sim 400 \text{ kg/cm}^2$

### Application:

- Hydraulic Plunger
- Sleeves
- Mechanical Seals
- Industrial Rollers
- Capstan Ring
- Drawing Drum
- Piston Rods
- Boiler Tubes
- Oilfield Mandrels

# AUTO SAND BLASTING ROOM

## AUTO SAND-BLAST OPERATION ROOM

Sand blasting or abrasive blasting is the operation of forcibly propelling a stream of abrasive material against a surface under high pressure to roughen a smooth surface. Compressed air is used to propel the blasting material. There are several variants of process, using various media; some are highly abrasive, whereas others are milder. This process of roughening a smooth surface is required to support the Hard Chrome Plating process. In electroplating rollers or cylindrical rods, the surface has to be roughened to increase the bonding strength of the plating. Our sand blasting room operates automatically with control panel outside the room.



Shot-blaster Machine and the mechanical rotation is controlled fully from the outside of the room.

Other than preparing the surface roughness for Hard Chrome Plating, it is also being used to prepare surface for Thermal Spray Coating, or used just to remove corrossions, and also used to prepare a semi-matte Hard Chrome finish.

Semi-Matte Hard Chrome finish is a process, which after the blasting process the material is being electroplated and the finish product should not be finished with any other methods. The blasting process in this matter, is the most crucial process in order to prepare the surface and also providing the desired roughness scale of the product's surface.



Chromed Semi-Matte Roll

# OVERHAUL

## ENGINE AND MACHINERY OVERHAUL

Engine and machinery overhauling is an organized procedures performed by the special technicians in order to restore performances of an engine or machine into factory-default specifications and also to give second “life” by reconditioning worn or damaged components.



Crankshaft Dismantle on Engine Block



Ship Engine Block Parts



Roll Housing Dismantle



Engine Block Dismantle



Overhaul of Crankshaft 7,000 mm in Length

# SPECIALIZED WELDING

## SPECIALIZED WELDING

Specialized welding is a process to recondition broken engines, recessed bearing pockets, corroded turbo charger casing, cylinder cover and valve cages, etc. where welding processes such as Cast Iron, SUS, Stellite, Aluminum, Bronze, or Copper Welding, even Plasma Transferred Arc welding is possible to be applied. This process is meant to repair or recondition broken parts of engines or machineries and to extend its lifetime.



Engine Block Repair



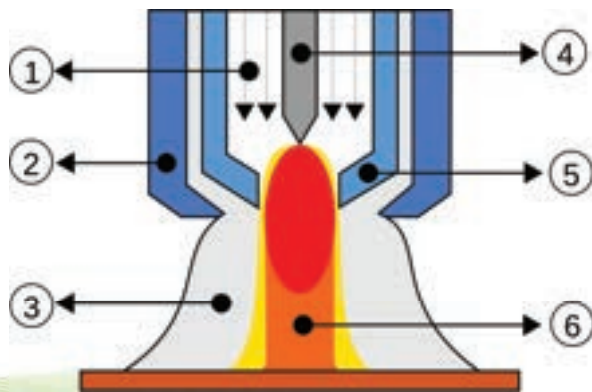
Recondition of Radius with Welding



Plasma Transferred Arc Welding on Injection Screw



Plasma Transferred Arc Welding



- 1. Gas Plasma
- 2. Nozzle Protection
- 3. Shield Gas
- 4. Electrode
- 5. Nozzle Constriction
- 6. Electric Arc

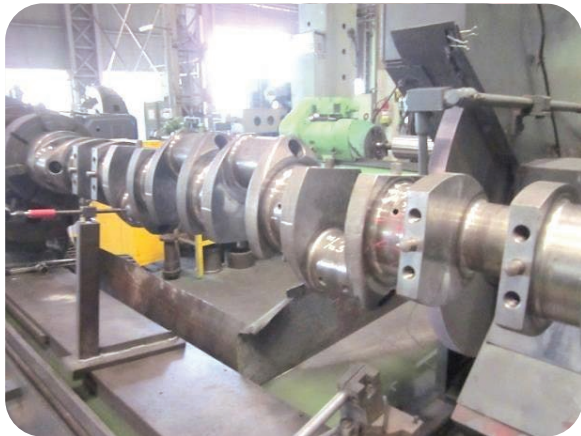
Plasma Transferred Arc Welding Process

PRECISE MACHINING (Grinding, Turning, Milling and Lathe)

Our team of highly trained technicians and engineers provide a high level of precision machining services for our customers. Equipped with the largest (9 meters in length and 1.5 meters in diameter) CNC Crankshaft Grinding Machine in Asia. It is now possible to carry out permanent reconditioning of crankshaft to the trueness of 0.03 mm. Our precision machining services of **Grinding, Turning, Milling and Lathe** have the ability to repair and recondition connecting rods, piston crowns, exhaust valves, crankshafts, rolls, etc. Through turning process, any cylindrical forms are possible to be cut precisely. Using a precise high- quality cutting tool, precise reconditioning process is possible to be done.



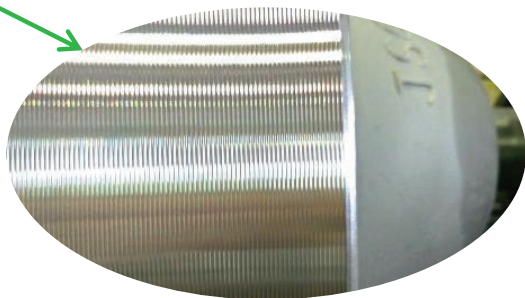
8,500 mm Crankshaft Grinding Process on CNC



Crankshaft Resizing by Grinding Process



Sink Roll Thread Grooving Cut



Injection Screw Lathe Machining



Ship Crankshaft Crack Test

# MACHINING



Steam Turbine Rotor 20 MW [Ø 406 x TL 5064 mm]



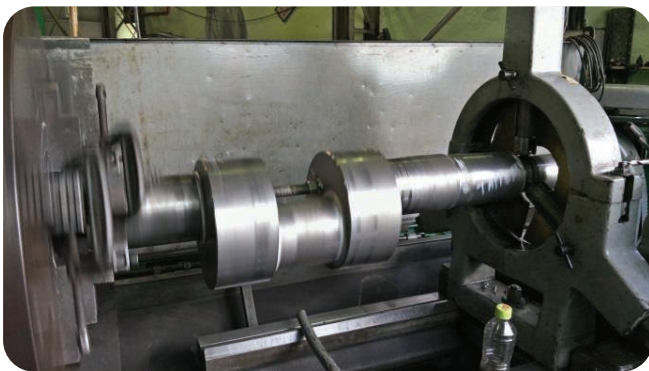
Double-Tapper CNC Grinding



Sink Roll HVOF Coating Removal Undercut



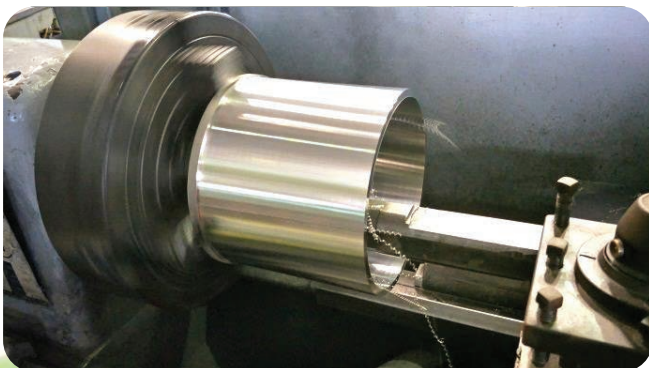
Rotor Turbine [HVOF Coating Finishing Grinding]



Crankshaft Fabrication



Cooling Roll Finishing Grinding [Ø 900 x TL 1500 mm]

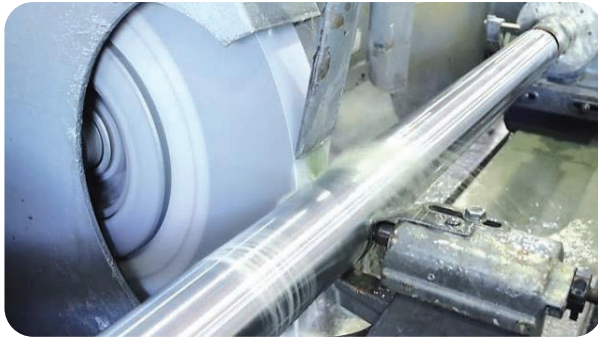


Cylinder Nip Roll Fabrication [OD 200 x ID 213 x L 164 mm]



Calender Roll for Rubber [Ø 462 x SL 1,020 x TL 2,760 mm]

# MACHINING



Roll Finishing Grinding



Surface Grinding



CNC Cylindrical Grinding Machine (Max. Capacity Ø 1,600 mm x L 8,500 mm)



Lathe Machine (Max. Capacity Ø 1,200 mm x L 10,000 mm)



NC Lathe Machine (Max. Capacity Ø 500 mm x L 1,000 mm)



Lathe Machine (Max. Capacity Ø 950 mm x L 10,000 mm)

## Application:

- Engine Crankshafts
- Cooling Rolls
- Calender Rolls
- Dryer Roll
- Guide Drums
- Pistons
- Injection Screws
- T-Dies
- Lip Dies
- Shafts
- Cutters
- Capstan Rings
- Engine Blocks
- Exhaust Valves
- Connecting Rods
- Piston Crowns
- Hydraulic Pistons
- Step Cones
- Pump Rings
- Impellers
- Turbine Rotor
- Cylinder Press

PROFESSIONAL QUALITY CONTROL

The quality policy of our company is arranged to achieve sustained and profitable growth of the company by providing industrial services with the best quality achievable consistently to satisfy the needs and expectations of our customers. This level of quality is achieved through guidance of system procedures that reflect the competence of the company to existing customers, potential customers, and independent auditing authorities. Achievement of this policy involves all staff, who individually responsible for the quality of their work, resulting in a continually improving working environment for all.



Thickness Tester



Roughness Tester



Roughness Tester



Hardness Tester

Detail	Value
Standard	JIS 2001
Profile	R
Filter	Gauss
Eva-L	7.5 mm
$\lambda c$	2.5 mm
$\lambda s$	8 $\mu m$
N	3

Detail	Value	
Measuring Indenter	Diamond indenter for Micro-Vickers	
Reproducibility	HRC: $\pm 1.0$ HRC	HV: $\pm (3\%rdg)$ HV
	HS: $\pm 1.0$ HS	HB: $\pm (3\%rdg)$ HB
Allowable Operating Temp.	0 ~ 50 $^{\circ}C$	

# BIO CLEANING SOLUTION

## POWER CLEANER DB

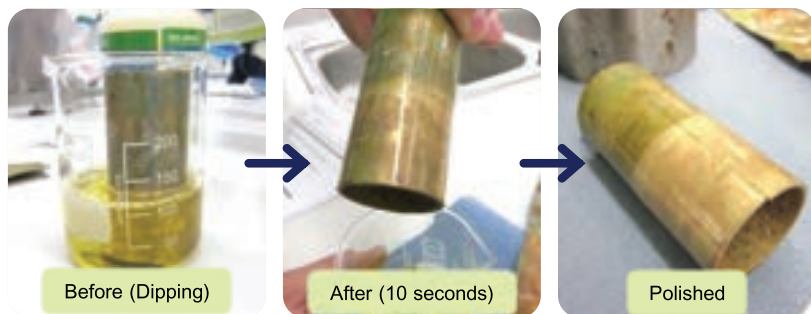
Phosphate- and hydrochloric acid-free water-based **intensive cleaner** (highly concentrated, can be diluted with water up to 1:40). In a cold state it removes cement and lime scale residues, urine scale, moss and algae, rust as well as tarnish, oil, grease, and protein residues, water stains and black fungus stains, with simultaneous germ reduction and disinfection from:

- Exposed-aggregate flagstone, reinforced concrete, buildings, tombstone, and natural stones.
  - Brass and copper, aluminum or stainless steel. Can be heated up to 90°C.
- **Surfactants are biodegradable in accordance with EU directives**  
➤ **Hygienic cleaning, developed in line with eco-consciousness**  
➤ **Not subject to mandatory labeling in accordance with the EU Directive**



### Field of use:

- Engine Parts
- Industrial Rollers
- Plastic and Rubber Molds
- Heat Exchanger
- Small Metal Parts
- Sanitary Area



## OIL DEGREASER CB 100

This **water-based cleaner** operates on the basis of coconut extracts, which impart the cleaner its excellent dissolving power. Cracking, soot, sealing compounds and adhesives, oil carbon, bitumen, and anti-rust waxes are able to be removed. Oil degrease CB 100 is material-conserving, metallic surfaces will not be damaged.

- **VOC-free – Environmentally compatible and user-friendly**  
➤ **Water-based, not harmful for the environment and skin**  
➤ **Not subject to mandatory labeling in accordance with the EU Directive, reduces hazardous substances**  
➤ **Virtually residue-free**  
➤ **On the basis of renewable raw materials**

### Field of use:

- Universally applicable in the manual cleaning of strong contaminations in all fields of the industry
- Engine Parts
- Industrial Rollers
- Plastic and Rubber Molds
- Heat Exchanger
- Small Metal Parts
- Sanitary Area



# BIO CLEANING SOLUTION

## MANUAL CLEANING BY HAND

All the cleaning solutions can be applied manually or using a cleaning device. For manual application, the material to be cleaned could be brushed or rubbed after being soaked, sprayed, or rinsed with the solution. Normally, the materials or parts that are difficult to disassembled or reached, have to be cleaned manually. The user do not have to be worried by the chemical components of the cleaner solutions. Mostly the cleaning solution from Bio-Chem is dermatologically tested (Safe for Skin) and does not harm the environment (except the solutions with highly acidic substance).



Cleaned Manually by Hand

## BIO-CIRCLE COMPACT

BIO-CIRCLE systems are comfortable to use, environmentally friendly, and they offer optimal solutions to any requirement you may have in parts washing. It is easy to handle, fast, safe, and environmentally friendly cleaning also of extremely soiled parts, and the long service life of the VOC-free liquids make the BIO-CIRCLE system matchless in its economic efficiency.



Work Surface(WxD)	740 x 540 mm
Maximum Load	100 kg
Working Height	1,040 / 900 mm
Operating Temperature	15 – 48 °C
Heating	750 Watt
Pump	40 Watt
Optimum Filling	90 Liters
Material	LDPE
Empty Weight	45 kg
Power Supply	230 V, 50 Hz



Bearing Cleaning by Hand on Bio-Circle Compact

# BIO CLEANING SOLUTION

## CHANNEL CLEANING BY “HEC DEVICE”

### Stainless steel cleaning device for the cleaning and flushing of pipes, heat exchanger and coolers!

Deposits in pipes, heat exchangers, coolers, cooling ducts, cooling rolls, and other channel systems may cause malfunctions or production losses. This can be avoided by cleaning the systems with the HEC Cleaning Device at regular intervals. The HEC Device is manufactured completely from stainless steel and flushes the systems on the principle of recirculation flushing: this saves time and cost because there is no complex and time consuming mounting and dismantling. The cleaning can be completed fast and efficiently even in complex pipe geometries.



Dimensions (L x W x H)	720 x 1.200 x 940 (mm)
Tank Capacity	500 Liters 600 x 400 x 600 (mm)
Pump Power	Stainless Steel Centrifugal Pump 0.55 kW
Output	2.5 m³/h
Heater Power Temperature	VA 4.5 kW 60 °C
Hose Connection	Output & Input: 1"
Electrical Power	380 V, 16 A
Total Empty Weight	± 110 kg



RWR Device Cleaning Process



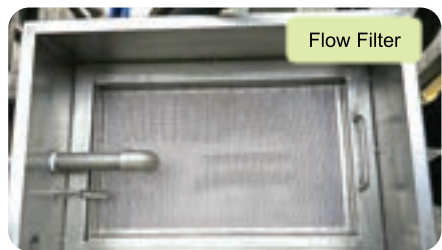
Cooling Roll Channel Cleaning



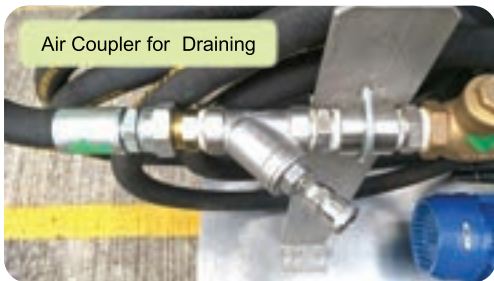
Cooling Channel of Die Cleaning with RWR Device

# BIO CLEANING SOLUTION

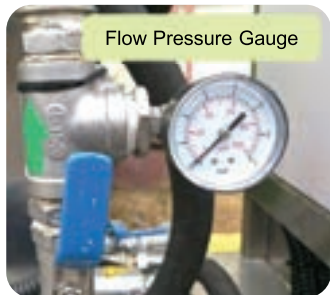
## HEC DEVICE – General Full Specification



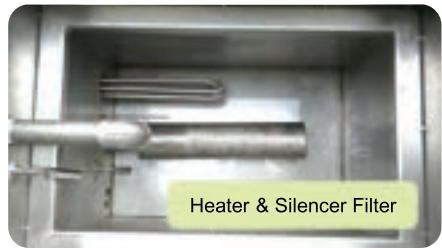
Flow Filter



Air Coupler for Draining



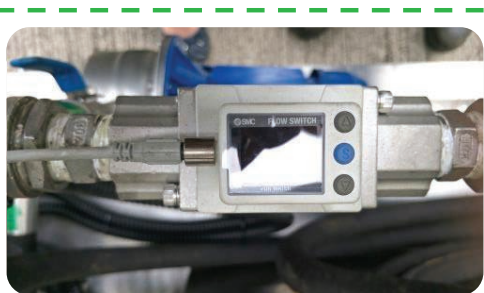
Flow Pressure Gauge



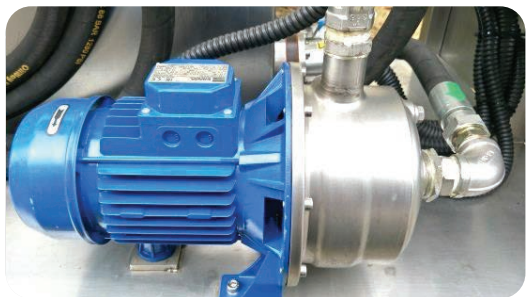
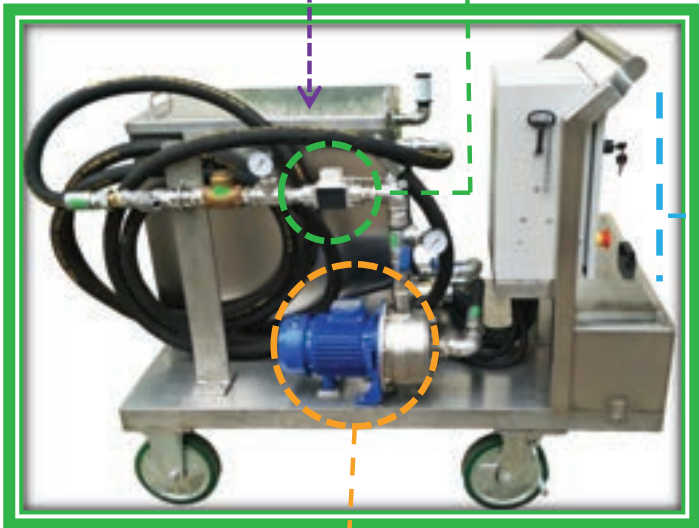
Heater & Silencer Filter



Air Filter



**Digital Flow Switch:**  
This device helps to monitor the flow rate of the chemical running in the pipe and work-pieces.



- Chemical Pump Specification:**
1. Stainless Steel Cover - Chemical Resistant (Acid & Alkaline)
  2. Flow Rate of 20 – 80 L/min
  3. Working Pressure of 1 ~ 2 Bar
  4. Pumping Energy: 0.55 kW
  5. Easy to repair and maintain
  6. Input & Output Hose: 1 inch



- Control Panel Equipment:**
1. Power Safety Switch
  2. Master Power ON Button
  3. Pump ON/OFF Switch
  4. Heater ON/OFF Switch
  5. Digital Thermo Control
  6. Timer ON/OFF Switch
  7. Digital Timer Control

# BIO CLEANING SOLUTION

## RWR Device Cleaning Results



Mineral Deposits from inside the Cooling Roll



Cooling Roll after Cleaning



Lime Scales from inside the Cooling Roll



Cooling Roll after Cleaning



Mixture of Oil and Grease from inside the Cooling Roll



Cooling Roll after Cleaning

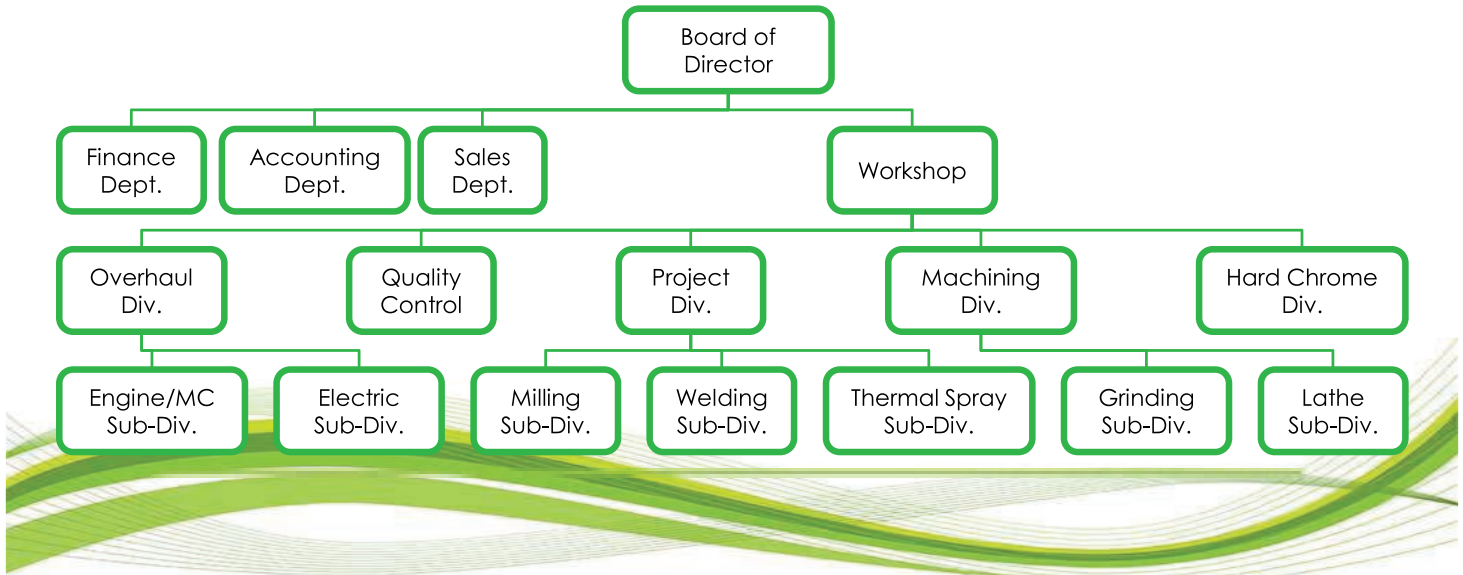
# LIST OF MACHINERY

ITEM	DESCRIPTION	Qty	MAKER	COUNTRY	MODEL	CAPACITY (mm)
<b>Grinding Machine</b>						
1	CNC Crankshaft Grinder	1	VERECO	Italy	RG700/850	Ø 1,770 x 8,500 L
2	Crankshaft Grinder	1	A.Z.	Italy	CG3600U	Ø 920 x 3,600 L
3	Crankshaft Grinder	1	NAKASHIMADA	Japan	MG-40	Ø 300 x 1,000 L
4	Cylindrical Grinder	1	SHIBAURA	Japan	KR 765	Ø 790 x 6,500 L
5	Cylindrical Grinder	1	TOYODA	Japan	GS 55-3200	Ø 550 x 3,200 L
6	Cylindrical Grinder	1	SHIBAURA	Japan	KSR 525	Ø 510 x 2,500 L
7	Cylindrical Grinder	1	SHIGIYA	Japan	GU-403	Ø 410 x 930 L
8	Surface Grinder	1	OKAMOTO	Japan	ACC 155DX	1,500 L x 500 W x 595 H
9	Vertical Grinder (Super Mirror)	1	YAMAZAKI	Japan	REX 8M	Ø 800 x 8,000 L
10	Vertical Grinder (Super Mirror)	1	MIRAC	Japan	2B-4000	Ø 600 x 4,000 L
11	Cylindrical Grinder	1	MIRAC	Japan	MR-1HA-2500	-
<b>Lathe Machine</b>						
12	Heavy Duty Lathe	1	TAKIZAWA	Japan	TALX 950	Ø 950 x 10,000 L
13	Facing Lathe	1	FUJII SEIKI	Japan	60-6FLH	Ø 1,200 x 6,500 L
14	Gap Lathe	1	SHOUN	Japan	HB-575	Ø 530 x 3,000 L
15	Gap Lathe	1	SHOUN-CAZENEUVE	Japan	HB-575	Ø 510 x 900 L
16	Lathe Machine	1	TSUDA	Japan	C653629	Ø 510 x 2,500 L
17	Lathe Machine	1	KURAKI	Japan	APOC-A	Ø 820 x 1,500 L
18	Lathe Machine	1	KURAKI	Japan	ILP-402-15	Ø 1,700 x 700 L
19	Vertical Lathe Machine	1	DORRIES	Germany	SDE-140	Ø 530 x 1,000 L
19	NC Semi Auto Lathe MC	1	DAINICHI KINZOKU KOGYO	Japan	DL53	-
<b>Boring Machine</b>						
20	Horizontal Boring Machine	1	VWF	Germany	BEN125/200	-
21	Horizontal Boring Machine	1	IKEGAI TEKKO	Japan	DA-1090T	-
<b>Milling Machine</b>						
22	Universal Milling Machine	1	TIGER	Germany	FP 170	-
23	Universal Milling Machine	1	KOTOBUKI	Japan	UPM 615	-
24	Universal Milling Machine	1	HITACHI SEIKI	Japan	2ML-VO	-
<b>Radial Drilling Machine</b>						
25	Radial Driller	1	SHIN NIHON KOKI	Japan	RD-16D	Drill 2-56, Arm 1,600
26	Radial Driller	1	ROUND FU	Taiwan	RF-30 (PF)	Drill 32, Mill 20-76
27	Portable Driller	1	-	-	-	-
<b>Other Machinery</b>						
28	Jib Internal Boring/Milling	1	MITSUI SEIKI	Japan	JO6A	1,000 L x 700 W x 820 H
29	Vertical Honing Machine	1	GEHRING	Germany	281600 H	Ø 500 x 1,600 H
30	Band Saw Machine	1	DAITO	Japan	S360	2,300 L x 1,100 W x 1,650 H
31	Shaper Machine	1	KLOPP	Germany	850	Stroke 850, Ram 2,100
32	Universal Cutter Grinder	1	WAIDO	Japan	DW-79	-
33	Valve Seat Grinder	1	CALMEC	Italy	PEG-10	Seat 20-65
34	Hydraulic Press	1	-	Singapore	-	100 Tons
35	Air Screw Compressor	1	KOBELCO	Japan	KST37A-5	6.9 Bar (0.69 MPa)
36	Air Screw Compressor	1	KOBELCO	Japan	SG-37AV-H	6.3 Bar
37	Air Compressor	2	KRISBOW	Indonesia	KW13-12	8 Bar (0.8 MPa)
38	Balancing Machine	1	SCHENK	Germany	M0063	Ø 200 x 1,000 L
39	In-Situ Line Boring Machine	1	HORIGUCHI	Japan	-	-
40	Buff Polishing Machine	1	TODOROKI	Japan	E9	Ø 600 x 5,000 L
41	Portable Buffing Machine	1	KOKA CHROME	Japan	-	-
42	Polishing Device	2	KOKA CHROME	Japan	-	-
43	Hydraulic Press	1	MCN	Japan	-	-
44	RWR Cleaning Device	1	BIO-CIRCLE	Germany	G29000/RWRA 80L	1,200 L x 720 W x 940 H
45	Water Belt Sander	1	-	Japan	WBS 70 for Wet	-
46	Radial Lapping Machine	3	HORIGUCHI	Indonesia	-	-
<b>Thermal Spray Facility</b>						
47	Wire Metalizing System	1	SULZER-METCO	Switzerland	14 E	-
48	Powder Spraying System	1	SULZER-METCO	Switzerland	5P-11	-
49	Ceramic Spraying System	1	NORTON	USA	Rokide Rod	-
50	HVOF Ceramic Spraying System	1	EUTECTIC/TAFA	USA	JP-5000	-
51	Arc Spray System	2	METALLISATION ENERGIZER	UK	S250/S450	-
52	Blast Pot with Auto Gun	1	HORIGUCHI	Singapore	-	Ø 1,800 x 2,000 L
53	Automated Sand Blasting Room	1	HORIGUCHI	Indonesia	-	-
54	Chiller	1	METROPOLITAN	Indonesia	120,000 BTU/H	6.9 Bar (0.69 MPa)
55	Air Screw Compressor	1	KOBELCO	Japan	AG610A-5	-
56	Silenced Spray Room	1	HORIGUCHI	Indonesia	-	-
<b>Welding Facility</b>						
57	Auto Submerged Arc Welding	1	RINAR/LINCOLN	USA	5M2020 TC	DC 1,000
58	AC Arc Welder	2	DAIDEN	Japan	B400	400 Ampere
59	DC Arc Welder	1	LINCOLN	USA	DC-1000	500 Ampere
60	AC/DC TIG Welder	1	HOBART	USA	350	350 AC/DC
61	Auto TIG Welder	1	LINCOLN	USA	TIG-355	355 Ampere
62	TIG Welder	2	MILLER	USA	Gold Seal 160i	160 Ampere
63	TIG Welder	1	TRAVO LAS WIM	Malaysia	ES 1600	-
64	TIG Welder	1	HOBART	USA	-	-
65	Auto MIG Welder	4	DAIDEN	Japan/USA	XC359/XC500	300A, 350A, 500A
66	Gas Welding Set	3	HORIGUCHI	Indonesia	-	-
67	Plasma Transferred Arc Welder	1	EUTECTIC CASTOLIN	Austria	GAP2501DC	-
68	Spot Welding Machine	1	TEL WIN	Italy	PTE 28	-

LIST OF  
MACHINERY

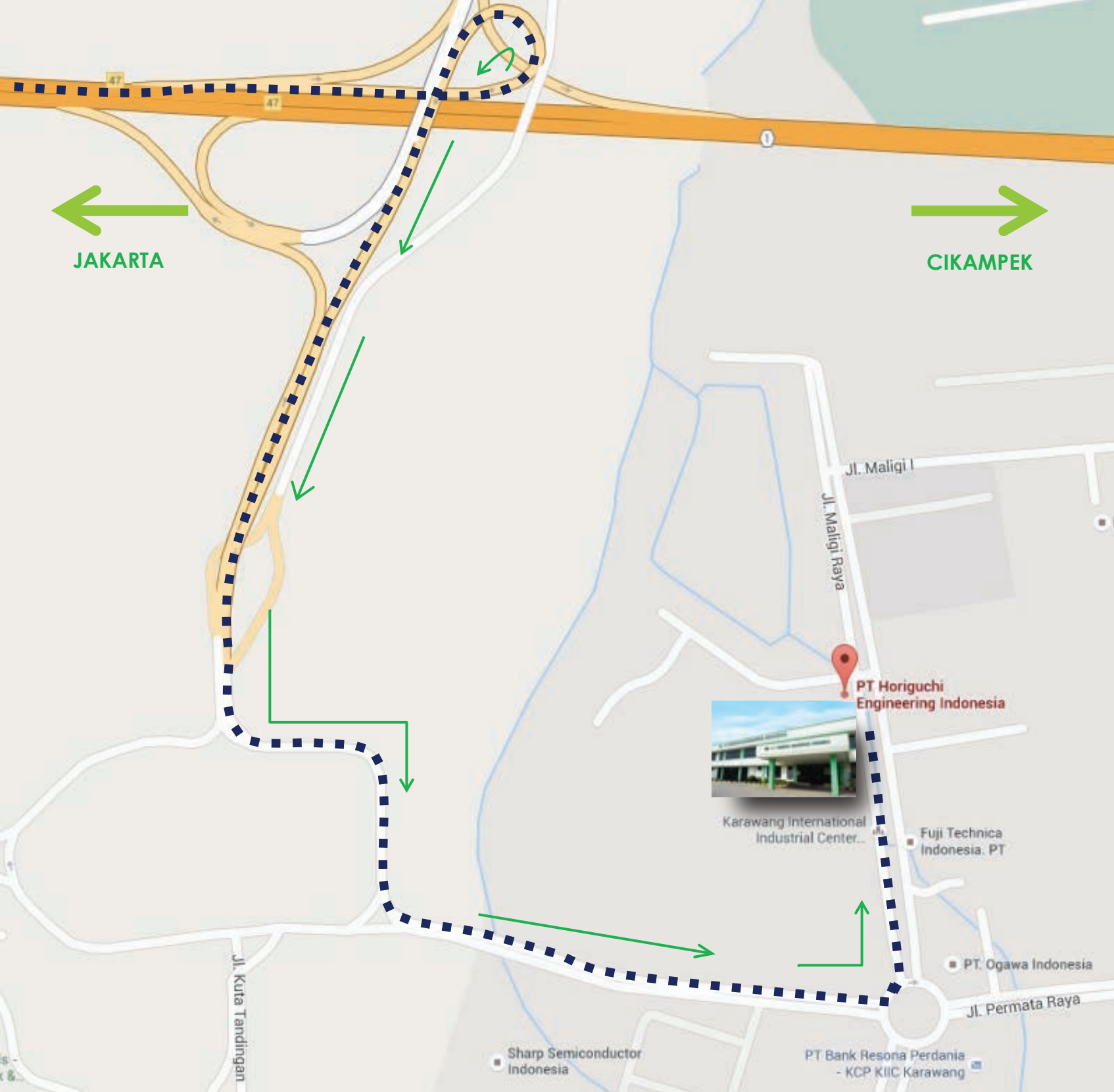
ITEM	DESCRIPTION	Qty	MAKER	COUNTRY	MODEL	CAPACITY (mm)
<b>Hard Chrome Plating Facility</b>						
69	Hard Chrome Plating Tank 1	1	KOKA CHROME KOGYO	Japan	-	5,000 L x 3,000 W x 4,500 H
70	Hard Chrome Plating Tank 2	1	MIYAKO E-TECH	Indonesia	-	3,000 L x 2,000 W x 4,600 H
71	Hard Chrome Plating Tank 3	1	KOKA CHROME KOGYO	Japan	-	2,000 L x 1,200 W x 2,000 H
72	Hard Chrome Plating Tank 4	1	KOKA CHROME KOGYO	Japan	-	2,000 L x 1,200 W x 2,000 H
73	Filter Pump Tank 1	1	NIHON FILTER	Japan	-	-
74	Filter Pump Tank 2	1	NIHON FILTER	Japan	EGL-8-C	5,700~13,000 L/h
75	Filter Pump Tank 3	1	NIHON FILTER	Japan	EGL-4-C	3,600~6,000 L/h
76	Filter Pump Tank 4	1	NIHON FILTER	Japan	EGL-4-C	3,600~6,000 L/h
77	Electrolysis Alkali Degreasing Tank	1	KOKA CHROME KOGYO	Japan	-	4,000 L x 3,000 W x 4,500 H
78	Water Cleaning Tank	1	KOKA CHROME KOGYO	Japan	-	4,000 L x 3,000 W x 4,500 H
79	Mobile Chrome Plating Tank	1	MIYAKO E-TECH	Indonesia	-	5,000 L x 3,000 W x 1,300 H
80	Current Rectifier	4	CHUO SEISAKUSHO	Japan	MB7C-15/8-103	10,000 A x 4 Units = 40,000 A
81	Current Rectifier	3	CHUO SEISAKUSHO	Japan	MB7C-15/8-103	10,000 A x 3 Units = 30,000 A
82	Current Rectifier	2	CHUO SEISAKUSHO	Japan	MB7C-15/8-502	5,000 A x 2 Units = 10,000 A
83	Current Rectifier	2	CHUO SEISAKUSHO	Japan	MB7C-15/8-302	3,000 A x 2 Units = 6,000 A
84	Current Rectifier	1	CHUO SEISAKUSHO	Japan	MB7C-15/8-202	2,000 A x 1 Unit = 2,000 A
85	Current Rectifier	1	CHUO SEISAKUSHO	Japan	MB7C-15/8-101	1,000 A x 1 Unit = 1,000 A
86	Current Rectifier	2	mitsubishi	Japan	S6A3-PTA	500 A x 2 Units = 1,000 A
87	Chrome Solution Purifier	1	KOKA CHROME	Japan	-	-
88	Chrome Plating Fixture	1	KOKA CHROME	Japan	-	-
89	Water Jet Honing Equipment	2	KOKA CHROME	Japan	-	-
90	Pin Hole Inlay	1	TAKUSHU GIKEN	Japan	-	-
91	Drilling Machine	1	ASHINA	Japan	-	-
92	Shearing Machine	1	-	Japan	-	-
93	Brush Plating Equipment	1	DALIC	France	-	-
94	Miura Boiler	1	MIURA	Japan	EI-1000H 06802494	1,000 kg
95	Wet Blast Machine	1	FURUKAWA	Japan	SPL 40-R	0.20 m³/min – 2,500 RPM
96	Miura Boiler	1	MIURA	Japan	EH-500F	500 kg
<b>Quality Testing Equipment</b>						
97	Magna Flux Tester	1	ARDROX	USA	EX-X	-
98	Hardness Tester	1	KAWATETSU	Japan	SONOHARD SH-6A	-
99	Hardness Tester	1	MITSUTOYO	Japan	-	-
100	Crack Depth Detector	1	NIHON METECH	Japan	RMG 4015	-
101	Cylinder End Scope with Camera	1	AKASHI	Japan	MVK-HO	-
102	Thickness Meter	1	MITSUTOYO	Japan	DGE-702	-
103	Roughness Meter	1	MITSUTOYO	Japan	SJ-301	-
104	Sulfur Meter	1	YAMAMOTO	Japan	SC-D	-
105	Standard Hydrometer	1	-	Japan	-	-
106	Photoelectric Colorimeter	1	-	Japan	-	-
107	Digital Scale	1	-	Japan	-	-
108	Mercury Thermometer	1	-	Japan	-	-
109	Handy pH Meter	1	-	Japan	-	-
<b>Other Facility</b>						
110	Fork Lift	1	TMC	Japan	FD 7027	7 Tons
111	Overhead Travelling Crane	2	MHE DEMAG	Germany	EKKE – EKDR 5	5 Tons
112	Overhead Travelling Crane	1	KITO	Japan	EO - 050	5 Tons
113	Overhead Travelling Crane	2	MHE DEMAG	Germany	EKKE – EKDR 10	10 Tons
114	Overhead Travelling Crane	1	MHE DEMAG	Germany	DH 1050 H 16	15 Tons
115	Overhead Travelling Crane	1	MITSUBISHI	Japan	-	15 Tons
116	Jib Crane	2	KITO	Japan	-	1 & 0.5 Tons
117	Truck	3	ISUZU	Japan	-	4, 4, 2 Tons
118	Saloon, SUV, Mini Bus	8	HONDA/TOYOTA	Japan	SEG-541	-
119	455 kVA Generator Set	2	MITSUBISHI	Japan	-	-
120	Truck	1	ISUZU	Japan	GIGA FTR 90 T	15 Tons

ORGANIZATION CHART



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 PT. ASIA PACIFIC FIBERS, TBK.  
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