

PT. CHEMCO HARAPAN NUSANTARA

Automotive Brake System | Aluminium Casting | Alloy Wheels



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PT. CHEMCO HARAPAN NUSANTARA



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PT. CHEMCO HARAPAN NUSANTARA

❖ Head Office & Plant I

Kawasan Industri Jababeka
Jababeka Raya F 19 – 28
Cikarang Utara – Bekasi

❖ Plant II

Kawasan Industri Mitrakarawang
Mitra Raya II Kav. E 7 – 12
East Karawang

❖ Shareholder

- Hitachi Astemo Co.,Ltd	40%
- PT. Prospect Motor	40%
- PT. Mayasari Bhakti Utama	20%

❖ Established

1984 (J/V : 1987)

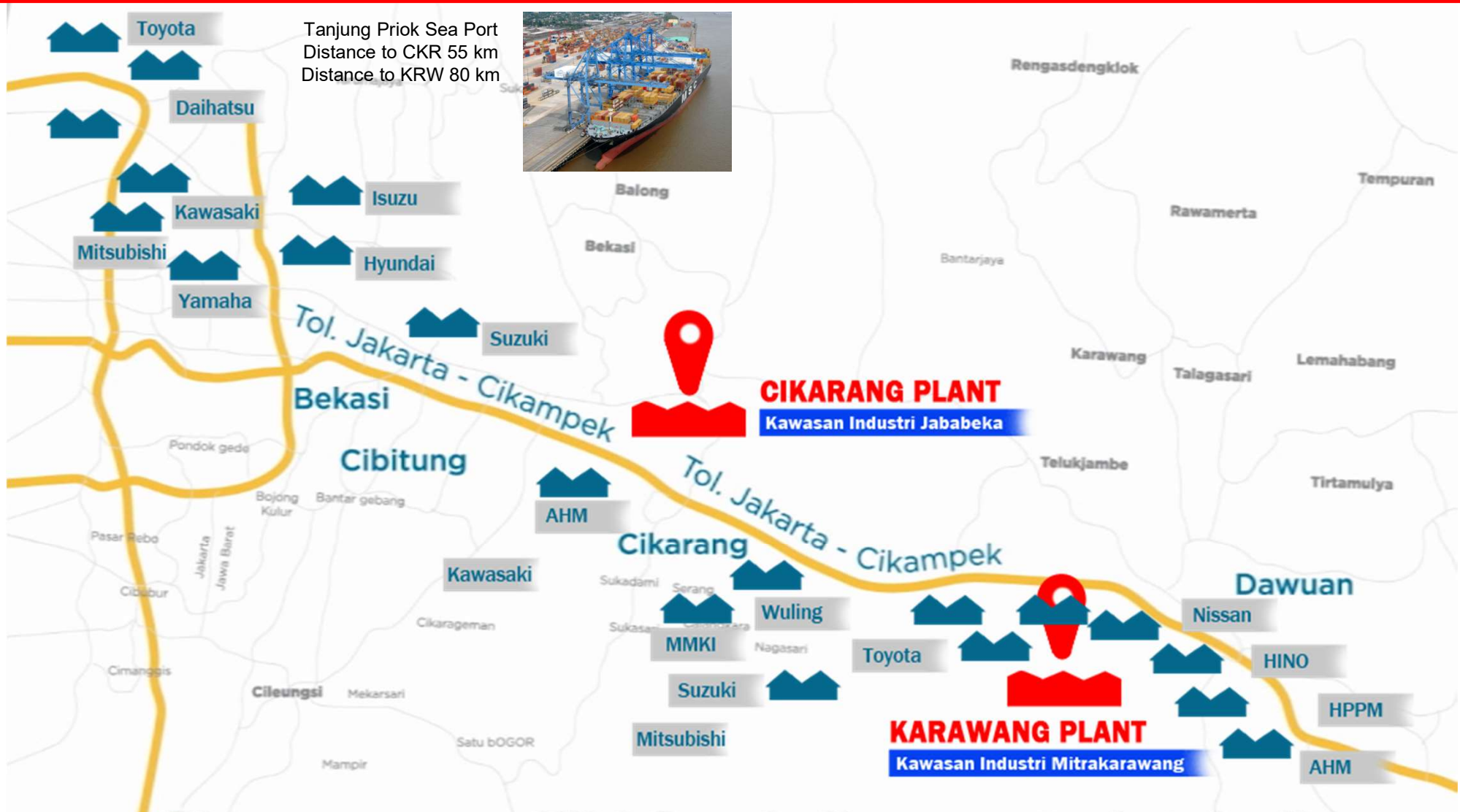
❖ Total Employee

5,200 persons

Jan 2021



LOCATION



MAIN CUSTOMERS

Motorcycle

1. PT. ASTRA HONDA MOTOR
2. PT. KAWASAKI MOTOR INDONESIA
3. PT. YAMAHA INDONESIA MOTOR Mfg
4. PT. SUZUKI INDOMOBIL MOTOR
5. NISSIN KOGYO and GROUP
6. Others including export

AUTOMOBILE

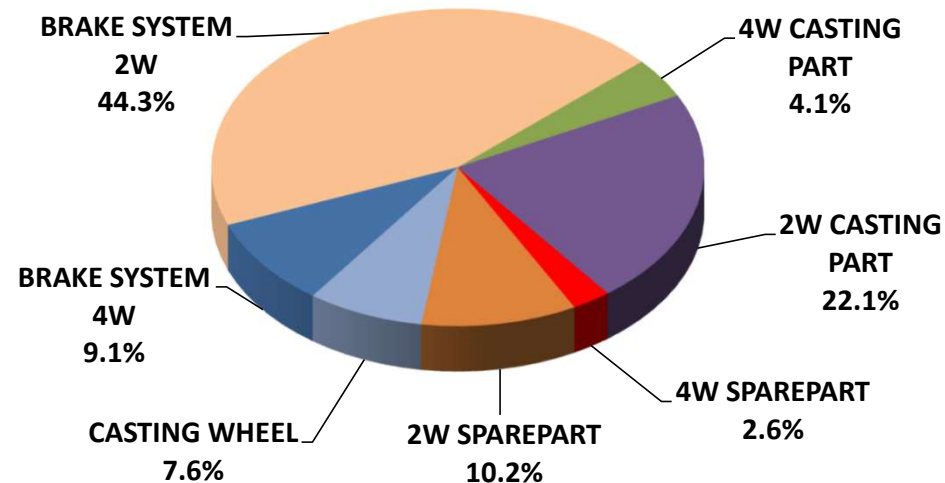
1. PT. HONDA PROSPECT MOTOR
2. PT. HONDA PRESICION PART MFG
3. PT. SUZUKI INDOMOBIL MOTOR
4. PT. ASTRA DAIHATSU MOTOR
5. PT. HINO MOTOR MFG INDONESIA
6. PT. MITSUBISHI KRAMA YUDHA MOTORS
7. PT. MESIN ISUZU INDONESIA
8. PT. HYUNDAI INDONESIA MOTOR
9. Others including export

OTHERS

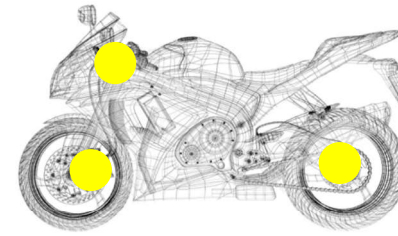
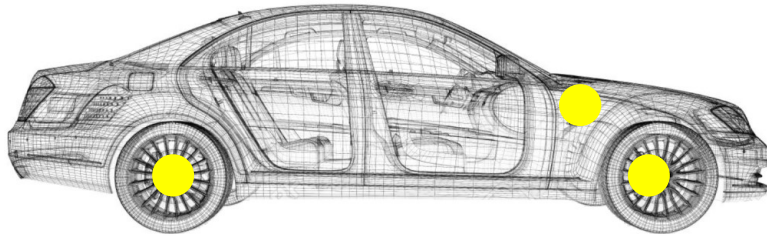
1. ALCAR WHEELS GMBH
2. PT. PHILIPS INDONESIA
3. PT. YAMAHA MUSIC MANUFACTURING INDONESIA
4. Others

In alphabetical order

Sales in 2020



BRAKE SYSTEM AND FRICTION MATERIALS



High pressure die casting
Gravity die casting



Caliper Assy



Rear Brake Assy



M.Power/M.Cyl Assy



Prefilled Clutch System



Proportioning Valve



Set Master Cylinder Fr



Caliper Assy Rr



Set Master Cylinder Rr



Panel Assy



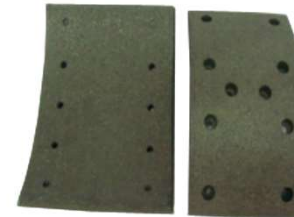
Brake Shoe



Brake Pad



Block Lining

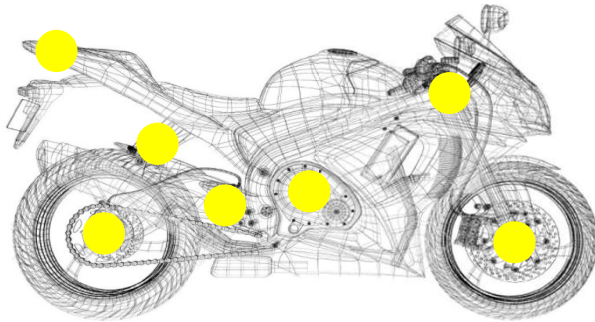


Brake Lining



Brake Pad

ALUMINIUM CASTING PRODUCTS



High pressure die casting
Gravity die casting



Arm Rear



Crown Handle



Cover Cylinder Head



Bracket Pillion Step



Crank Case



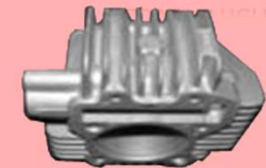
Cover Thermostat



Cover Element



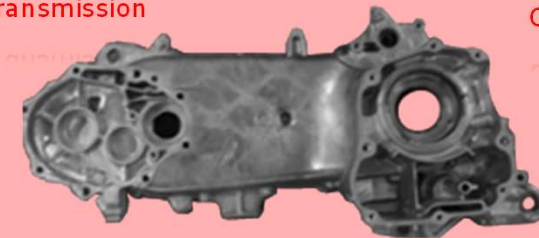
Case Transmission



Cylinder Head



Cover Crank Case



Body Crank Case



Hub Rear



Hub Front



Rear Grip



Hub Rear

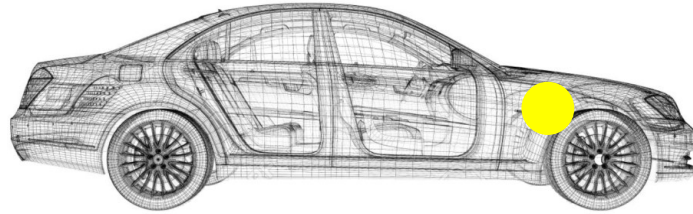


Flange Fnl Driven

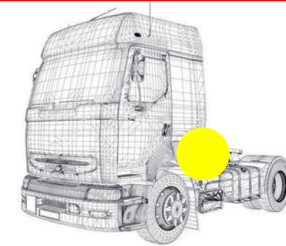


Gear Box Spdm

ALUMINIUM CASTING PRODUCTS



High pressure die casting
Gravity die casting



Bracket Mounting



Duct Intake LH



Pipe Intake LH



Cover Cam Thrust



Slider Comp



Bracket Injection Pump



Bracket Common Rail



Gear Case Timing



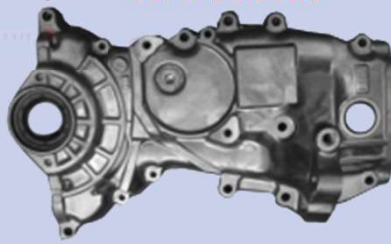
Cover Solenoid



T/C Case



Pan Oil Assy



Case Assy Chain



Intake Manifold



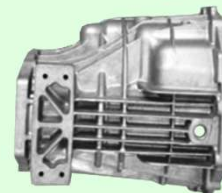
Cover Thermostat



Cover Cylinder Head



Support Assy Steering



Case Transmission



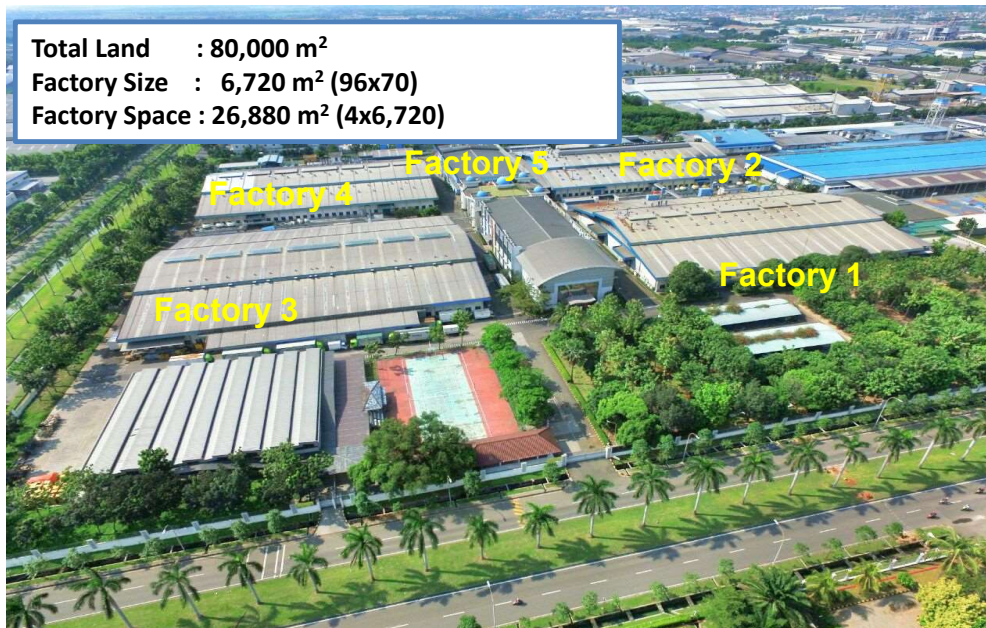
Rear Cover

ALUMINIUM CASTING WHEELS

- Expertise in motorcycle and automobile **aftermarket** wheel production with **OEM quality**
 - 100% X-ray inspection
 - 100% leak inspection
 - withstand harsh winter conditions (with acrylic powder coating)
- Flexible and lean production, high capacity utilization; **800,000 wheels per year**
- Size ranging from **14" up to 20"** with variety of surface finish



PRODUCTION FACILITIES



CIKARANG PLANT

Main Building

- ☐ Head Office
- ☐ Technical Center
- ☐ Painting Line

Factory 2

- ☐ HPDC & GDC
- ☐ Heat Treatment

Factory 4

- ☐ Machining Line
- ☐ Electroless Plating

Factory 1

- ☐ QA Room
- ☐ Brake Pad & Shoe

Factory 3

- ☐ Warehouse
- ☐ Assembling

Factory 5

- ☐ Wet Painting Line

Factory 1

- ☐ Casting Machining
- ☐ Painting
- ☐ Assembling Brake system

Factory 3

- ☐ Wheel Factory
- ☐ LPDC Machine
- ☐ Machining
- ☐ Painting

Factory 2

- ☐ Large Size Die Casting
- ☐ Machining
- ☐ Painting
- ☐ Warehouse

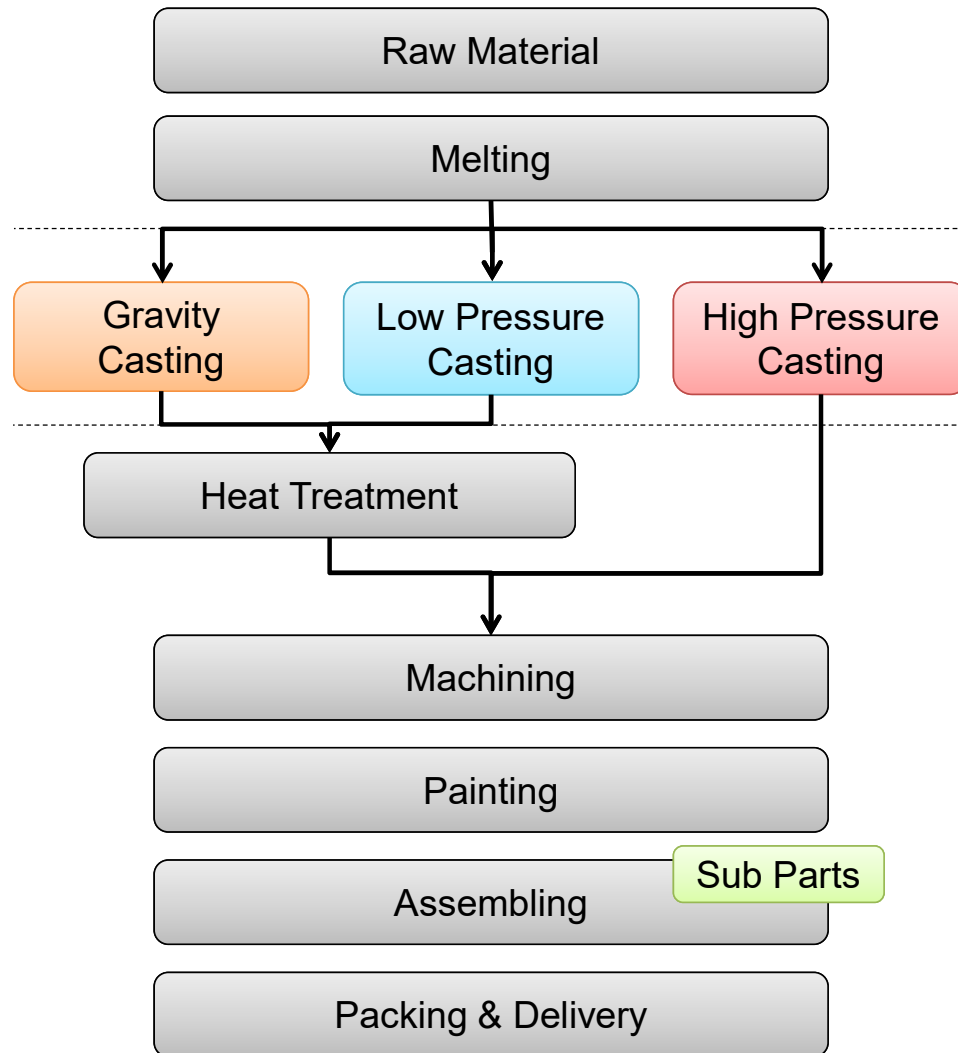
Future Plan

Space 192.000 m²

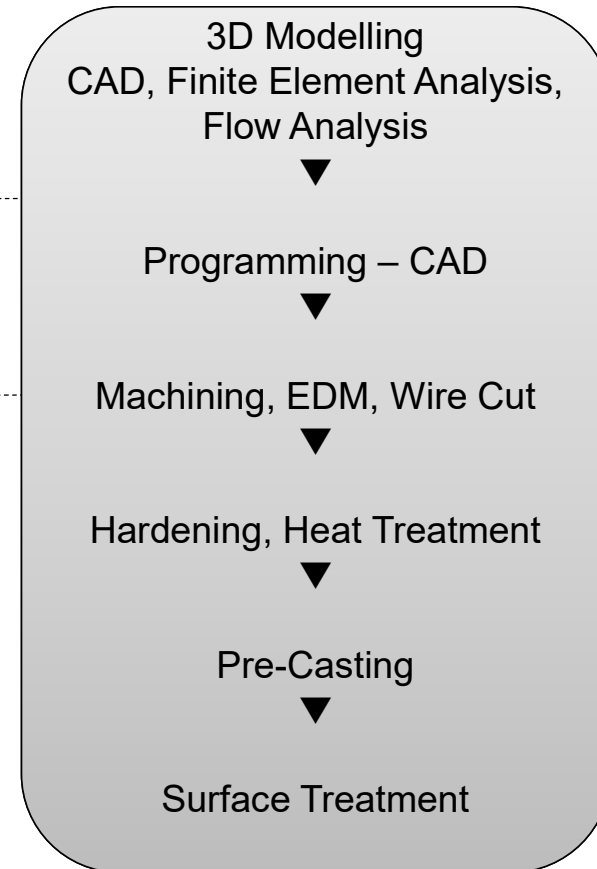
KARAWANG PLANT



PRODUCTION FLOW



Mould Design & Manufacturing



PRODUCTION FLOW

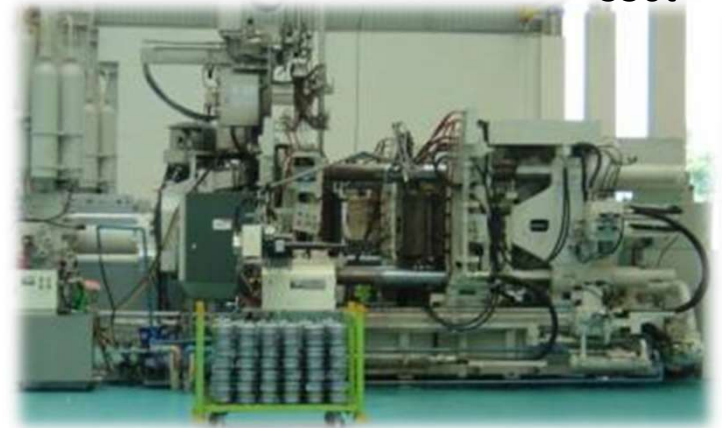
Gravity
Casting



Low Pressure
Casting



High Pressure
Casting



350t



2,500t

DIE CASTING

Aluminium Melting

20,000 tons per year

Quality Aluminium
from Indonesia, The Middle East,
Russia, Australia, and China



Ingot Type	GDC	HPDC	LPDC
ADC12		●	
A356	●		●
AC2B	●		
HD4		●	
OTHER			●

Gravity Die Casting

UNIT	CKR	KRW	TOTAL
Machine	49	60	109

Diverse Production Processes

wide range of quality products
with competitive price

High Pressure Die Casting

UNIT	CKR	KRW	TOTAL
135T	1	-	1
350T	33	24	57
650T	7	19	26
850T	-	13	13
1250T	-	5	5
1650T	-	1	1
2500T	-	1	1
TOTAL	41	63	104

Low Pressure Die Casting

UNIT	CKR	KRW	TOTAL
Machine	-	28	28

HEAT TREATMENT – MACHINING – SURFACE TREATMENT – ASSEMBLING

Heat Treatment

Two steps—solution heat treating and aging

SANKEN heat treatment furnace [JAPAN]

EISENMANN heat treatment furnace [GERMANY]



Machining

> 350 units

high-speed, high-precision and high efficiency CNC machining centers



In-house tool making to optimize machining cost



Assembling

~ 250 thousand

Automobile brake system sets / year

~ 5 million

motorcycle brake system sets / year

Painting and Surface Finish

Electrostatic painting line, powder coating, electroless nickel plating, electro-deposition paint, and alumite

EISENMANN automatic painting line [GERMANY]

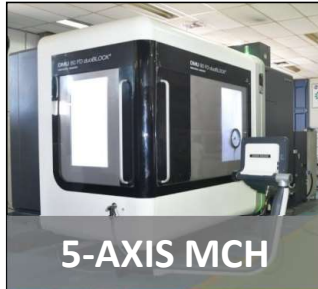
WURSTER automatic painting line [GERMANY]

ENGINEERING – RESEARCH & DEVELOPMENT

WHEEL DEVELOPMENT FACILITIES



MACHINING CENTER



5-AXIS MCH



PLASMA NITRIDING



HARDENING



IMPACT TEST



BENDING TEST



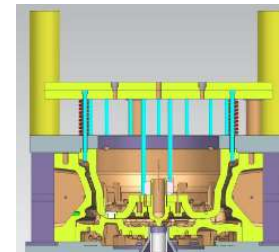
RADIAL TEST

DESIGN

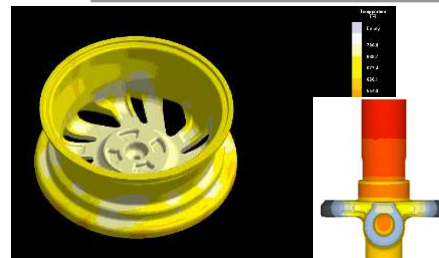
- | | |
|---|--------------|
| 1, CAD (UniGraphics, Solid Works, Solid Edge) | : 7 Licenses |
| 2, CAM (Cimatron, Delcam , Master CAM) | : 5 Licenses |
| 3, CAE (Magma, NX CAE) | : 2 Licenses |

MANUFACTURE

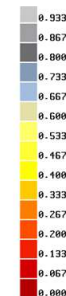
- | | |
|--------------------------------------|---------------|
| 1, CNC Machining | : 12 machines |
| 2, CNC 5 Axis Machining | : 1 machine |
| 3, Graphite CNC Machining | : 1 machine |
| 4, CNC Lathe Machining | : 2 machines |
| 5, EDM | : 4 machines |
| 6, Wire Cut machine | : 2 machines |
| 7, Gun Drilling machine | : 1 machine |
| 8, CNC Tools Grinding Machine | : 2 machines |
| 9, Manual Milling, Lathe, Grinding | |
| 10, Die Spotting Press Machine | : 1 machine |
| 11, Hardening Vacuum Furnace | : 1 machine |
| 12, Plasma Nitriding - PACVD Coating | : 1 machine |



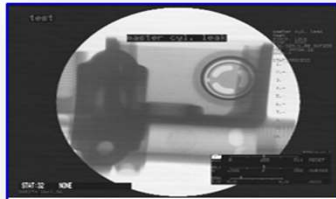
MOULD DESIGN



FLOW ANALYSIS



QUALITY ASSURANCE



X-Ray



3D CT Scan



Parts Resistance Strength Test



Coordinate Measuring Mach



Ozone Test



Spectrometer



Salt Spray Test



Surf comp and Round comp

AFTERMARKET PARTS

OES PARTS

- 1. BIG Lining line up**

AFTER MARKET PARTS

- 1. Samurai Brake Nissin**
- 2. Chemco Wheel**
- 3. 4W Alloy Wheel (Torsion Wheels)**
- 4. Home living & Appliances**

AFTERMARKET PARTS

OES PARTS

1. BIG Lining line up

AFTER MARKET PARTS

1. Samurai Brake Nissin

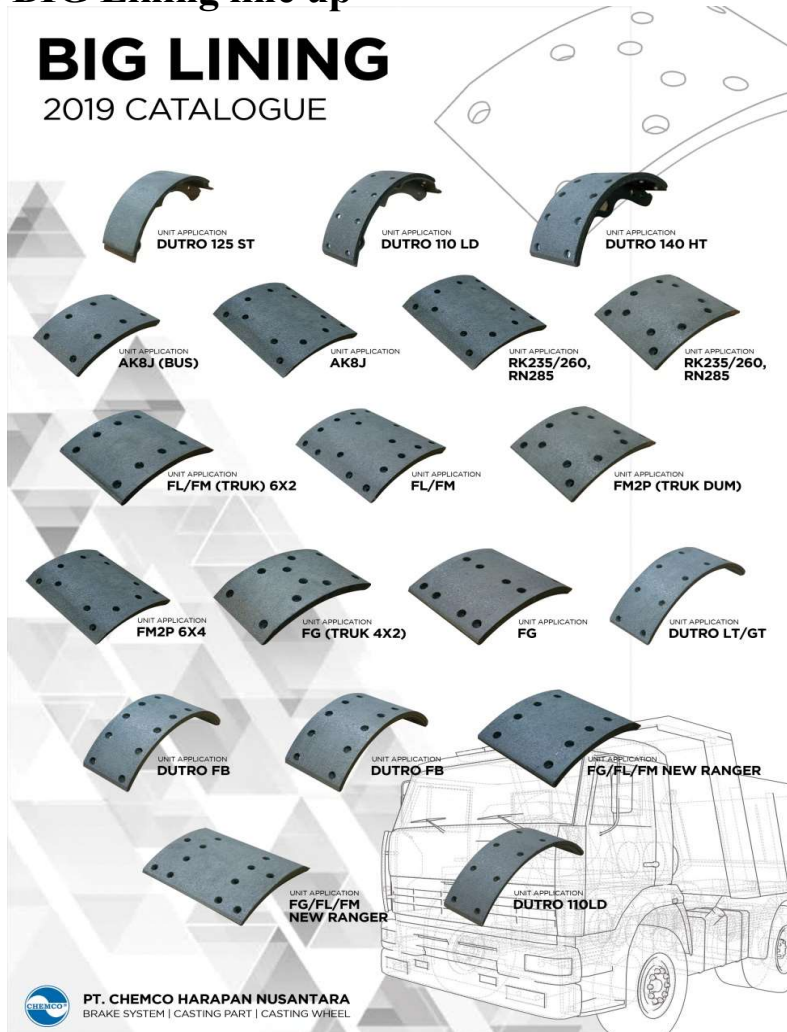
2. Chemco Wheel

3. 4W Alloy wheel (Torsion Wheels)

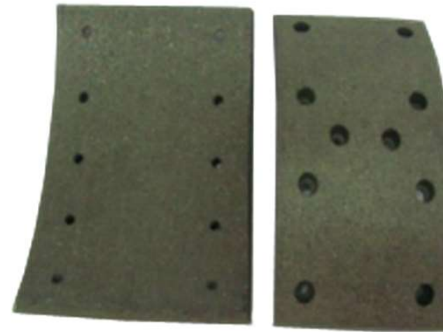
4. Home living & Appliances

OES PARTS

1. BIG Lining line up

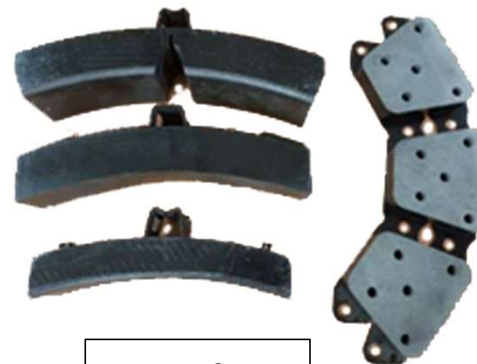


Brake Lining



Commercial
vehicle

Block Lining



Train

Brake Pad



Commercial
vehicle

AFTERMARKET PARTS

OES PARTS

1. BIG Lining line up

AFTER MARKET PARTS

1. Samurai Brake Nissin

2. Chemco Wheel

3. 4W Alloy wheel (Torsion Wheels)

4. Home living & Appliances

AFTERMARKET PARTS

1. Samurai Brake Nissin



Master Cylinder



@SAMURAI BRAKE



Caliper 2 Piston



Caliper 4 Piston

AFTERMARKET PARTS

RACING PERFORMANCE WITH SAMURAI SPIRIT

2 PISTON CALIPER
Integrated Indoprix - Winning Technology

4 PISTON CALIPER
Premium design with highly engineered caliper

RADIAL MASTER CYLINDER
Superior quality for remarkable responsiveness

AXIAL MASTER CYLINDER
State-of-the-art technology for racing performance

DISC PAD
Performance, safety, and durability for racing and road use

4 Piston Caliper Pad

2 Piston Caliper Pad

SAMURAI BRAKE

NISFIN

QR CODE

SAMURAI BRAKE

SAMURAI BRAKE

APLIKASI CALIPER 2 PISTON

STANDARD

ADV ABS, ADV CBS, BEAT, BLADE 125, CB150R, CBR150, CRF 150, GENIO, KARISMA, MEGAPRO, PCX ABS, PCX CBS, REVO, SCOOPY, SONIC, SPACY, SUPRA GTR 150, SUPRA X 125 OLD, SUPRA X NEW, SUPRA X OLD, TIGER, VARIO, VERZA.

SATRIA 2 TAK, SATRIA FU

D-TRACKER 150, KLX 150, NINJA 150R, NINJA 150RR, NINJA 250, W175, Z250.

AEROX, FIZR, FINO NEW, FINO OLD, FREEGO, GT125, JUPITER Z1, JUPITER Z, LEXI, MIO J, MIO M3, MIO OLD, MIO SOUL, MT-15, MT-25, MX-135, MX-KING, N-MAX, NOUVO, R15, R15 V3, R15 VVA, R25, RX-KING, SCORPIO, VEGA R, VIXION, XABRE, X-RIDE 125 NEW, X-RIDE OLD, XRS 155.

Ø220

BEAT, GENIO, SCOOPY, SPACY, VARIO

Ø260

BEAT, BLADE 125, GENIO, REVO, SCOOPY, SUPRA X NEW, VARIO

FIZR, JUPITER Z, NOUVO, RX-KING, VEGA R

APLIKASI CALIPER 4 PISTON

HONDA

Kawasaki

YAMAHA

SAMURAI BRAKE

NISFIN

MT-25 NMAX

TR3 XMAX



@SAMURAI BRAKE

AFTERMARKET PARTS

OES PARTS

1. BIG Lining line up

AFTER MARKET PARTS

1. Samurai Brake Nissin

2. Chemco Wheel

3. 4W Alloy wheel (Torsion Wheels)

4. Home living & Appliances

AFTERMARKET PARTS

2. Chemco Wheel



Velg Chemco 14'






Velg Chemco 17'



@CHEMCOWHEEL

AFTERMARKET PARTS

ITEM	Size	Aplication	Color
CW SET 14" Model Youth 	14" 2.15/2.50	Yamaha : Mio Smile, Mio Sporty, X-Ride old	Black
		Honda : All Varian Beat, Scoopy, Spacy, Genio Vario 110, Vario 125 & 150	Gold, Silver
CW SET 14" Model EVO 	14" 2.15/2.50	Yamaha : Mio M3, Mio S, Fino 125, X-Ride 125 Freego, Soul GT 125	Gold, Bronze, Silver, White, Black
		Honda : All Varian Beat, Scoopy, Spacy, Genio Vario 110, Vario 125 & 150	Black Polish
CW SET 14" Model PENTA 	14" 2.15/2.50	Yamaha : Mio M3, Mio S, Fino 125, X-Ride 125 Freego, Soul GT 125	Gold, Bronze, Silver, White, Black
		Honda : All Varian Beat, Scoopy, Spacy, Genio Vario 110, Vario 125 & 150	Black Polish

ITEM	Size	Aplication	Color
CW SET 17" Model Youth 	17" 2.50/3.50	Honda : Tiger Revo	Candy Yellow
	17" 2.50/4.50	Honda : MegaPro Fi, CB 150R Old	White
CW SET 17" Model V 	17" 2.50/3.50	Honda : MegaPro Fi, CB 150R Old	White
	17" 3.00/4.50	Kawasaki : Ninja 250 Note : Double disc for front wheel	White Black
CW SET 17" (Sport) 	17" 3.00/4.50	Yamaha : R25 & MT 25	Black



@CHEMCOWHEEL

AFTERMARKET PARTS

OES PARTS

1. BIG Lining line up

AFTER MARKET PARTS

1. Samurai Brake Nissin

2. Chemco Wheel

3. 4W Alloy Wheel (Torsion Wheels)

4. Home living & Appliances

AFTERMARKET PARTS

3. 4W Wheels (Torsion Wheels)

@TORSION_WHEELS



NEWTON

15"x6.5" | 17"x7" | 18"x8"
PCD 4X100 | 4X114.3 | 5X114.3
ET +40



COLOR :
BLACK MATTE, GUNMETAL, SILVER

HERTZ

17"x8" | 18"x8" | 19"x8.5"
PCD 5X114.3
ET +40



COLOR :
BLACK MATTE, GUNMETAL, SILVER

KEPLER

17"x7.5"
PCD 4X100 | 4X114.3 | 5X114.3
ET +40



COLOR :
BLACK MATTE, GUNMETAL, SILVER

GAUSS

16"x7" | 17"x7" | 18"x8"
PCD 4X100 | 5X114.3
ET +40



COLOR :
BLACK MATTE, GUNMETAL, SILVER

VOLTA

18"x8"
PCD 5X114.3
ET +40



COLOR :
BLACK POLISH, GUNMETAL, SILVER

TURING

20"x8.5"
PCD 5X114.3
ET +40



COLOR :
BLACK POLISH, GUNMETAL, SILVER

AVOGADRO

20"x8.5"
PCD 5X114.3
ET +43



COLOR :
BLACK POLISH, GUNMETAL, SILVER

BRAGG

20"x8.5"
PCD 5X114.3
ET +45











COLOR :
BLACK POLISH, GUNMETAL, SILVER











AFTERMARKET PARTS









3. Torsion Wheel Application

<div>  </div>		
SIZE	PCD	OFFSET
15X6.5"	4X100	+40
17X7"	4X114.3	
18X8"	5X114.3	
BLACK MATTE	GUNMETAL	SILVER
		

<div>  </div>		
SIZE	PCD	OFFSET
17X8"	5X114.3	+40
18X8"		
19X8.5"		
BLACK MATTE	GUNMETAL	SILVER
		

<div>  </div>		
SIZE	PCD	OFFSET
17X7.5"	4X100	+40
	4X114.3	
	5X114.3	
BLACK MATTE	GUNMETAL	SILVER
		

<div>  </div>		
SIZE	PCD	OFFSET
16X7"	4X100	+40
17X7"		
18X8"		
5X114.3		
BLACK MATTE	GUNMETAL	SILVER
		

COMPATIBLE WITH		
<div>  </div> ACCORD BRIO CITY CR-V FREED CIVIC HR-V JAZZ MOBILIO	<div>  </div> AVANZA AGYA CALYA COROLA INNOVA RUSH VIDS YARIS	<div>  </div> CX-3 CX-5 MAZDA 2 MAZDA 3 G. LIVINA LIVINA MARCH SERENA
<div>  </div> BALENO ERTIGA IGNIS XL-7	<div>  </div> AYLX LUXIO SIGRA TERIOS XENIA	<div>  </div> ALMAZ CONFERO CORTEZ OUTLANDER XPANDER
<div>  TORSION_WHEELS  TORSION.CO.ID </div>		

COMPATIBLE WITH		
<div>  </div> ACCORD CR-V CIVIC HR-V	<div>  </div> COROLA INNOVA RUSH SIENTA ALMAZ	<div>  </div> CX-3 CX-5 MAZDA 2 MAZDA 3 LUXIO TERIOS LIVINA SERENA X-TRAIL
<div>  </div> ERTIGA XL-7 S-CROSS	<div>  </div> OUTLANDER XPANDER	<div>  </div> ALMAZ CONFERO CORTEZ
<div>  TORSION_WHEELS  TORSION.CO.ID </div>		

COMPATIBLE WITH		
<div>  </div> ACCORD CITY CR-V FREED CIVIC HR-V	<div>  </div> COROLA INNOVA RUSH YARIS ALMAZ CONFERO CORTEZ	<div>  </div> CX-3 CX-5 MAZDA 2 MAZDA 3 LUXIO TERIOS G. LIVINA LIVINA SERENA
<div>  </div> BALENO ERTIGA IGNIS XL-7	<div>  </div> XPANDER	<div>  </div> ALMAZ CONFERO CORTEZ
<div>  TORSION_WHEELS  TORSION.CO.ID </div>		

COMPATIBLE WITH		
<div>  </div> ACCORD BRIO CITY CR-V FREED CIVIC HR-V JAZZ MOBILIO	<div>  </div> AGYA CALYA COROLA INNOVA RUSH VIDS YARIS LIVINA MARCH SERENA X-TRAIL	<div>  </div> CX-3 CX-5 MAZDA 2 MAZDA 3 LUXIO SIGRA TERIOS ALMAZ CONFERO CORTEZ OUTLANDER XPANDER
<div>  </div> BALENO ERTIGA IGNIS XL-7	<div>  </div> ALMAZ CONFERO CORTEZ	<div>  </div> OUTLANDER XPANDER
<div>  TORSION_WHEELS  TORSION.CO.ID </div>		



@TORSION_WHEELS

AFTERMARKET PARTS

3. Torsion Wheel Application



SIZE	PCD	OFFSET
20X8.5"	5X114.3	+45
BLACK POLISH	GUNMETAL	SILVER

COMPATIBLE WITH



SIZE	PCD	OFFSET
18X8"	5X114.3	+40
BLACK POLISH	GUNMETAL	SILVER

COMPATIBLE WITH



SIZE	PCD	OFFSET
20X8"	5X114.3	+43
BLACK POLISH	GUNMETAL	SILVER

COMPATIBLE WITH



SIZE	PCD	OFFSET
20X8.5"	5X114.3	+40
BLACK POLISH	GUNMETAL	SILVER

COMPATIBLE WITH



Instagram TORSION_WHEELS

Globe TORSION.CO.ID

Instagram TORSION_WHEELS

Globe TORSION.CO.ID

Instagram TORSION_WHEELS

Globe TORSION.CO.ID

Instagram TORSION_WHEELS

Globe TORSION.CO.ID



@TORSION_WHEELS

AFTERMARKET PARTS

OES PARTS

1. BIG Lining line up

AFTER MARKET PARTS

1. Samurai Brake Nissin

2. Chemco Wheel

3. 4W Alloy Wheel (Torsion Wheels)

4. Home living & Appliances

HOME LIVING & APPLIANCE



Dorayaki frying pan



**Steel frying pan
-Coming Soon-**



Thank You.