



Industrial Oil Purification System



CENTRIFUGE OIL CLEANER | PORTABLE OIL CLEANER | GREEN PURIFIER SYSTEM

Company established in 1988, located in Ulsan. Korea

Size of Company is 5,758 m²

30 people are employed.

We provide oil cleaning solution for industrial field.

We specialize in the lubricant, hydraulic,
and cutting oil cleaning system.

2011 – 2017

- 2012** Acquired ISO14001:2008
Single PPM Certificate
- 2014** Green Purifier development
- 2016** Acquired CE certificates

1992 - 2003

- 2001** Acquired Cert. of Institute of
Technology
- 2002** Acquired Cert. of Venture
Business
- 2003** Acquired ISO 9001 Certificate

2004 – 2010

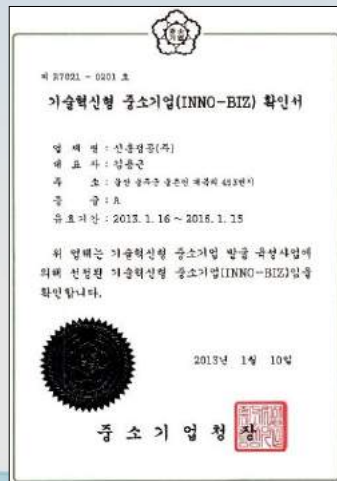
- 2007** Starting Motor development for
medium-speed diesel engine.
Acquired INNOBIZ Certificate
- 2010** Centrifugal Oil Cleaner development

1988 – 1991

- 1998** Establishment
- 1991** mechanical lubricator development
of MAN-Diesel Engine



ABS Cert.(Air Starter)



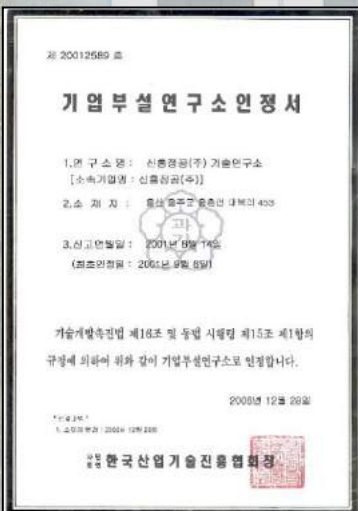
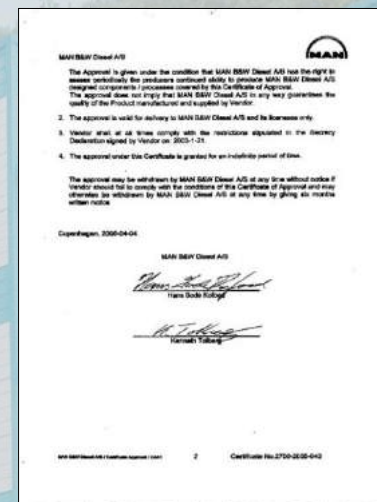
INNO-BIZ Cert.



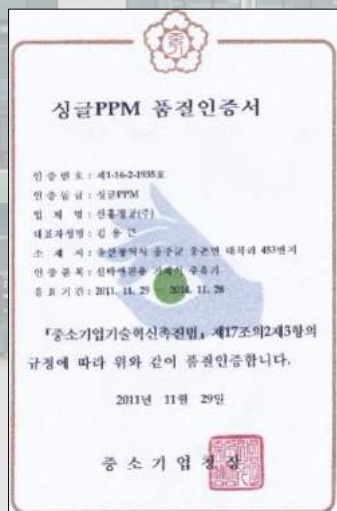
ISO14001



MAN Cert.(Alpha Lub.)



R&D Institute Cert.



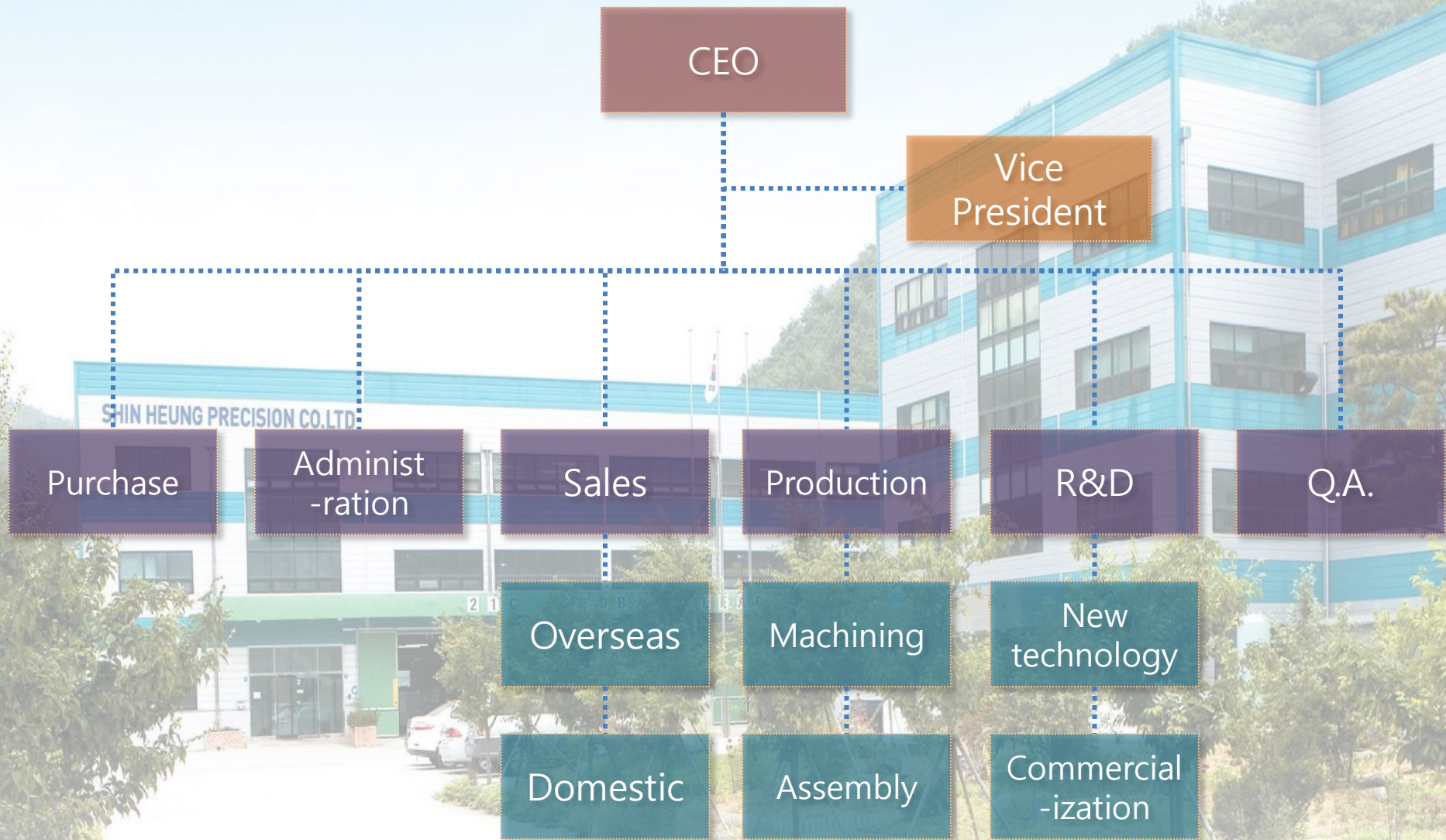
Single PPM



ISO9001



CE cert





Machining & Assembly shop



Oil Test shop



Air Starting Motor Assembly shop



Centrifuge Oil Cleaner Assembly shop

Location

Ulsan, 400km from SEOUL
From SEOUL, 4 hours by car & 1 hour by plane

Address

HEAD QUARTER
642-1 Ung chon ro, Ung chon Myeon, Ulju Kun
Ulsan City, S.Korea

Web site

<http://www.atlastech.co.kr>



ENGINE LUBRICATION



Mechanical Cylinder
Lubricator (ATLAS)



Electronic Lubrication
System (ALPHA)



ME Lubricator & Heating
Tank (ME)

INDUSTIAL OIL CLEANING



Centrifugal Oil Cleaner (CP)



Portable Centrifugal Cleaner
(PCC)

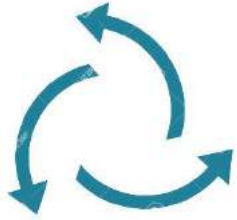


Purifier System (GP)

ENGINE STARTING MOTOR

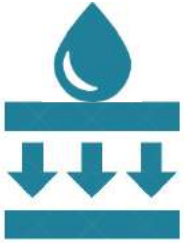


Air Starting Motor (SM)



CLEANING OIL BY CENTRIFUGAL FORCE

By centrifugal force, centrifuge oil cleaner can remove sludge and particles in the oil.



CENTRIFUGAL FORCE BY OIL PRESSURE

The Centrifugal force is made by oil supply pressure. No need to use motor for spin.



USER FRIENDLY & EASY MAINTENANCE

We provide user friendly system. It is easy to access and control as well as simple maintenance.



VARIOUS INDUSTRIAL APPLICATION

Centrifuge oil cleaner can be applied in various industrial field.
We supplied heat treatment shop, forming shop and steel mill shop and CNC machine shop.

CP series

Centrifuge Oil Cleaner



	CP200	CP400	CP600
Flowrate (L/H)	960	2,700	3,900
TankSize	~1,000	1,000~3,000	3,000~
RPM	4,000	3,800	3,600
Sludge Capacity	2.1L	4.0L	6.4L

Video



PCC series

Portable Centrifuge Cleaner



	PCC601	PCC602	PCC1202
Power	220/380V X 60Hz		
Motor	2.2Kw, 1EA	3.7kw, 2EA	3.7kw, 2EA
Pump	1EA	2EA	2EA
Oil temp	130 °C		
Oil viscosity	10 ~ 320 Cst		
Dimension (mm)	L: 670 W: 500 H: 800	L: 1,480 W: 900 H: 1,460	L: 1,620 W: 930 H: 1,470
Flowrate (L/H)	3,900	3,900	8,000
Working pressure	4.5 ~6.0 kg/cm ² (Min 2.5kg/cm ²)		

Video



GP series

Centrifuge Oil Cleaner & Water Separator



	GP200	GP600	GP1200
Power	220/380V X 60Hz		
Motor	1.5kw, 2EA	3.7kw, 2EA	3.7kw, 2EA
Pump	2EA	2EA	2EA
Oil temp	130 °C		
Oil viscosity	10 ~ 320 Cst		
Dimension (mm)	L: 1,322 W: 1,300 H: 1,240	L: 1,543 W: 1,360 H: 1,390	L: 1,600 W: 1,600 H: 1,438
Flowrate (L/H)	960	3,900	8,000
Working pressure	4.5 ~6.0 kg/cm ² (Min 2.5kg/cm ²)		

Video





CNC Machine
Cutting Oil



Heat Treatment
Quenching Oil



Engine Industry
Lubricant Oil



Marine Industry
Lubricant Oil



Steel Industry
Hydraulic Oil



Paper Industry
Hydraulic Oil



Fastener Industry
Forming Oil



Cement Industry
Lubricant Oil



CNC Aluminum machining

Oil	Capacity	Temp.	Sludge
coolant	300L	ambient	Fine particle



PCC601 installation



PCC602 installation

CNC Aluminum machining

Oil	Capacity	Temp.	Sludge
coolant	300L	ambient	Fine particle



PCC602 – rotor inside



PCC602 – after 8 hours



PCC602 – filter(after 8 hours)



PCC602 – oil condition

CNC Aluminum machining

**Initial Spindle collet & chuck
(fine particles stick to tools)**



**After 24 days with PCC
(a few particle on tools)**



Oil	Capacity	Temp.	Sludge
coolant	300L	ambient	Fine particle

CNC Aluminum machining

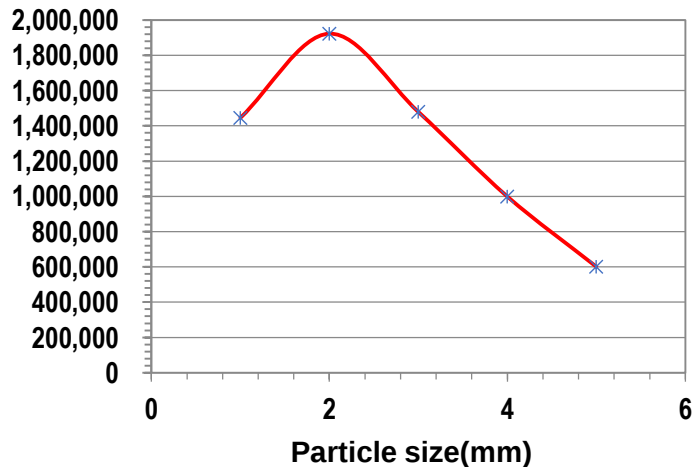
Oil	Capacity	Temp.	Sludge
coolant	300L	ambient	Fine particle

Initial particle content

1) Initial Test : 21th Nov.(Mon) - 15:50

NO.	Particle	Unit	Quantity
1)	1-2	each/100mL	1,445,500
2)	2-3	"	1,922,856
3)	3-4	"	1,478,930
4)	4-5	"	998,943
5)	5-6	"	600,913

Initial Condition

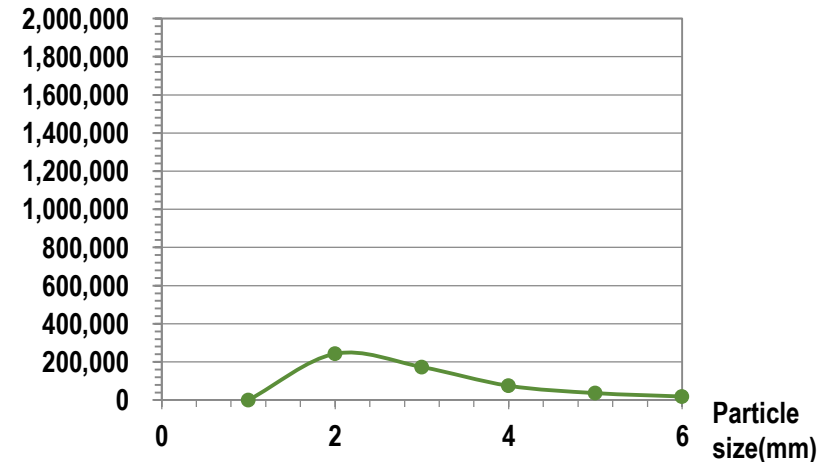


Particle content after 9 days

3) 4th Inspection : 1st Dec.(Mon) 13:00

NO.	Particle	Unit	Quantity	Efficiency
1)	1-2	each/100mL	242,643	83.2%
2)	2-3	"	173,393	91.0%
3)	3-4	"	75,097	94.9%
4)	4-5	"	36,590	96.3%
5)	5-6	"	18,700	96.9%
Ave.		Removal efficiency		92.5%

4th Inspection



NSK heat treatment shop

Oil	Capacity	Temp.	Sludge
Quenching oil	25,000L	100°C	Carbon



PCC602 installation



3 hours later : 15mm

NSK heat treatment shop

Oil	Capacity	Temp.	Sludge
Quenching oil	25,000L	100°C	Carbon



PCC1200 installation



19 hours later : 7kg

NSK heat treatment shop

Oil	Capacity	Temp.	Sludge
Quenching oil	25,000L	100°C	Carbon



Surface condition
Before



Surface condition
After

Other heat treatment Shop in Korea

Oil	Capacity	Temp.	Sludge
Quenching oil	20,000L	85°C	Carbon



ILJIN Bearing art
PCC602 installation



Shaeffler Korea
PCC602 installation



Sam lak
Heat treatment
PCC602 installation



Dae Sung
Heat treatment
PCC602 installation

열처리 공장 ALL CASE 로



Young wan Fastener shop – forming oil tank



Initial oil condition



After 15 days

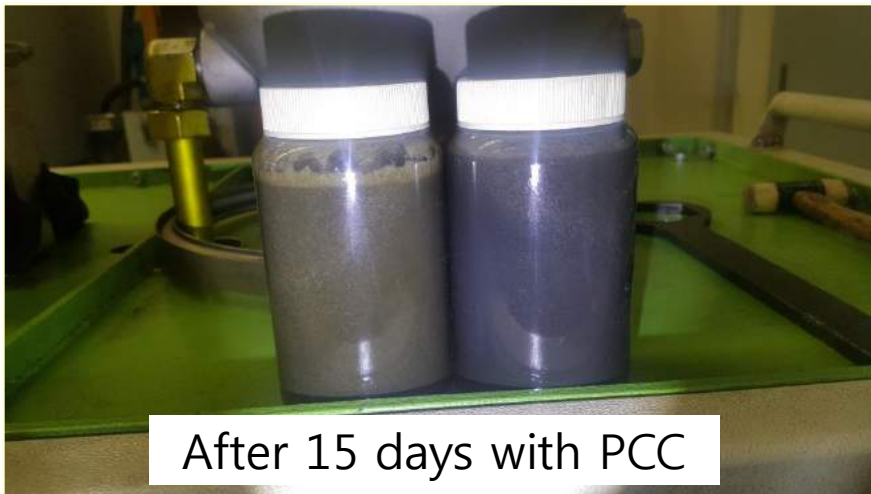
Young wan Fastener shop – forming oil tank



Initial condition in rotor



Sludge after 15 days



After 15 days with PCC



Initial



After 15 days

Other Fastener shop forming oil tank



SAMJIN Precision



NDF



Fastener in Taiwan

Hyundai heavy industry L.O. line

Oil	Capacity	Temp.	Sludge
Lub oil	35,000L	70~80°C	Water & particle



GP1200-Plano miller



GP1200-Big size engine shop



GP1200-mid size engine shop

POSCO Hydraulic oil tank

Oil	Capacity	Temp.	Sludge
Hydraulic oil	6,000L	40~50°C	Carbon



PCC602 Installation Hose Line



PCC602 Installation



Filter comparasion

Hankuk paper L.O. line

Oil	Capacity	Temp.	Sludge
Lub oil	10,000L	50~60°C	Carbon



Fine particle

Moorim Paper L.O. line

Oil	Capacity	Temp.	Sludge
Lub oil	1,000L	50~60°C	Carbon



GP200 Installation(Sludge and water separator)

Korindo group Palm carrier (Lub oil)



Palm Oil Carrier



GP 200 installation

Cement shop crusher



● Crusher(10,000ℓ)



● Oil Tank(5,000ℓ)





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