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 **SAMYOUNG M-TEK**

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Fax. +82-55-589-7707

# Contents



1. Company Introduction



2. Factory & Facilities



3. Products



4. Branches

# 회사연혁

History of  
SAMYOUNG  
M-TEK

2013.03 2공장 신관 완공(함안군 공단서길 40)

2011.10 울산 공장 인수(경주시 외읍동 석계리 2-6)

2010.12 삼천만불 수출탑 수상  
(한국 무역협회)

2009.02 내진공장 완공

2006.08 중국 DSD 공장 완공

2002.01 ISO 9001 승인  
(한국 표준협회)

2001.11 KOSDAQ 등록

1997.10 1공장 완공(함안 칠서면 태곡리 140-6)

1997.02 삼성중공업 소재사업부에서 분사

# CEO 인사말



CEO Moon-sik Kang

## 삼영엠텍(주)은 발전하는 기술력과 연구개발, 믿을 수 있는 품질로 글로벌 기업이 되겠습니다

삼영엠텍(주)은 1997년 10월, 함안군 칠서면에 설립되었고, 내연기관 구조재, 구조물 구조재, 산업기계 구조재 분야의 전문 기업입니다. 강구조재, 내진구조, 선박부품, 발전부품, 산업기계, 건설기계 분야로 사업을 확장하여 뛰어난 기술력과 품질시스템을 바탕으로 국내의 선박용 대형 엔진부품, 교량, 철도, 도로공사 프로젝트를 진행하였고, 일본, 중국, 유럽, 남미, 중동지역 등 전 세계시장에서 인정받고 있습니다. 올해로 창립 17주년을 맞이하는 삼영엠텍(주)는 짧은 역사임에도 불구하고 국내·외 치열한 경쟁 우위를 선점하기 위하여 기술력확보, 지속적인 연구개발, 믿을 수 있는 품질보증/관리, 글로벌 인재양성 및 역량강화 등에 힘써왔으며, 앞으로도 끊임없이 도전할 것을 약속 드립니다. 감사합니다.

# I 공장소개

## 1st Factory



### 1공장 현황

- 생산부, 기술 연구소, 품질 경영부
- 면적 : 20,600 m<sup>2</sup>
- 종업원 : 91 명 (협력업체 70 명)

## 2nd Head office



### 2공장 현황

- 소재영업본부, 기획관리본부, 재무팀
- Area : 16,500 m<sup>2</sup>
- 종업원 : 34 명(협력업체 30 명)

## 3rd Earthquake proof



### 내진구조 공장 현황

- 내진구조 사업부
- 면적 : 6,159 m<sup>2</sup>
- 종업원 : 31 명 (협력업체 2명)

# 품질보증

## ● NDT Level III



The American Society for Nondestructive Testing, Inc.  
 It is known that  
**Wi Sang An**  
 has met the established and published Requirements for Certification by ASNT as  
**NDT Level III**  
 in the following Nondestructive Testing Methods:

Method	Issue Date	Expiration Date
Ultrasonic Testing	7/99	7/14

185337  
 Certificate Number

ASNT President  
*John P. Hughes*

185337  
 Certificate Number

ASNT President  
*John P. Hughes*

This certificate is the property of ASNT. It is not official unless ASNT's raised gold seal and is subject to revocation prior to the final expiration date. This certificate should be verified on the ASNT Web site or by contacting the ASNT Technical Services Department.



The American Society for Nondestructive Testing, Inc.  
 It is known that  
**Jin Su Son**  
 has met the established and published Requirements for Certification by ASNT as  
**NDT Level III**  
 in the following Nondestructive Testing Methods:

Method	Issue Date	Expiration Date
Liquid Penetrant Testing	8/12	8/17
Magnetic Particle Testing	2/12	2/17
Ultrasonic Testing	8/12	8/17
Visual Testing	8/12	8/17

202359  
 Certificate Number

ASNT President  
*John P. Hughes*

202359  
 Certificate Number

ASNT President  
*John P. Hughes*

This certificate is the property of ASNT. It is not official unless ASNT's raised gold seal and is subject to revocation prior to the final expiration date.

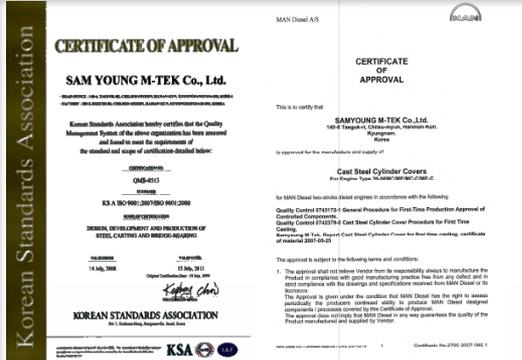
## ● 선급








## ● 인증서



**CERTIFICATE OF APPROVAL**  
**SAM YOUNG M-TEK Co., Ltd.**  
 140-1 Tegeon-ro, Cheongju-si, Chungcheong-do, Korea  
 KSA No. 982-2007001-000240

**CERTIFICATE OF APPROVAL**  
 This is to certify that  
**SAMYOUNG M-TEK Co., Ltd.**  
 140-1 Tegeon-ro, Cheongju-si, Chungcheong-do, Korea  
 has approved for the manufacture and supply of  
**Cast Steel Cylinder Covers**  
 For Engines Type M40AB/M47/M47J/M6C

for MAN Diesel two-stroke (diesel) engines in accordance with the following:  
 Quality Control (QC) 1719-1 General Procedure for First Time Production Approval of Cast Steel Components  
 Quality Control (QC) 1719-2 Cast Steel Cylinder Cover Procedure for First Time Casting  
 KSA No. 982-2007001-000240

14 July, 2008

**KOREAN STANDARDS ASSOCIATION**  
 KSA



**CERTIFICATE OF COMPLETION OF THE FACTORY PRODUCTION CONTROL**  
**NO. 10249-010**

It is certified with Resolution No. 10249/010 of the Executive Parliament and of the Council of Directors of 2007-07-26 that the factory production control (FPC) of the candidate applies to the construction project:

**Steel castings for internal uses**  
 as described in the project file: 10249-010

produced by the manufacturer  
**SAMYOUNG M-TEK CO., LTD.**  
 431-16, SANGHWA-RO, CHEONGJU-CITY, CHEONGJU-DO, SOUTH KOREA

It is the responsibility of:  
**DET. IN. SANGHWA CO. CHEONGJU-CITY, CHEONGJU-DO, SOUTH KOREA**

This will be taken effect at the date of the acceptance and verification of completion of performance described in the project file of the candidate.

**EN 10400:2004:2005**  
 under section 2-1, and applied to the:

The factory production control (FPC) of all the prescribed requirements set out below.

This certificate will be valid until 2011-07-26. The candidate must ensure that the FPC and the factory production control requirements included in the project file of the candidate are always in force and that the performance of the factory production control is always in accordance with the manufacturing conditions of the steel under initial application.

2008년 7월 14일

**한국표준협회장**

# I 검사 장비

명 칭	MODEL (Capacity)	Q'TY	비 고
분광 분석기	Dry (31 Chanel)	1	
만능 시험기	100 TON	1	
충격 시험기	KDMT-230	1	
경도기	Brinell , Rockwell , Ecotip, Shore	5	
U.T. 검사기	USK-8S	3	
M.T. 검사기	MY-2(Yoke) / K-3000(Prod)	5 / 1	
R.T. ROOM	Cobalt 60 / Iridium 192	1 / 2	



# I 주요 설비 현황

장비 명칭	Model(Capacity)	Q'TY	Remark
전기 유도로	고주파 유도( 8Ton)	2	
Ladle	Stopper 18Ton, 13Ton, 7Ton, T/T 8Ton	6	
Sand Mixer	0.5 Ton/unit, 40 Ton/Hr, 15 Ton/Hr	3	
	(Ceramic sand / α-set)		
열처리로(1공장)	Gas (20 Ton, 50Ton), Electric (30 Ton)	3	
	- Annealing, Normalizing, Tempering, Stress relief		
Cylinder Cover 자동 절단기	S50MC ~ K98ME	1	
Shot blasting	15 Ton(2 <sup>nd</sup> Factory), 20 Ton(1 <sup>st</sup> Factory)	2	
가공 기계(2공장)	Plano miller (6000 * 3000 * 1300)	1	
	Boring M/C (1800~8000 * 1450~2500 * 700~1400)	5	
	Turning M/C (ø2300~4600 * 1500~2300)	3	



# | 주요 고객

**SAMYOUNG M-TEK**

**DOOSAN**

Doosan Engine

**HYUNDAI**  
HEAVY INDUSTRIES CO.,LTD.

**Outotec**

**Kawasaki**

**DAELIM**

**ANDRITZ**

**Kubota**

**posco**

**DOOSAN**

Doosan Heavy Industries  
& Construction

**MES**

MITSUBI ENGINEERING &  
SHIPBUILDING CO.,LTD.

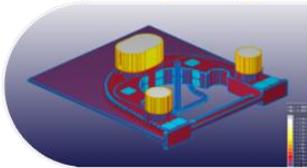
**metso**

**DHI-OCW**

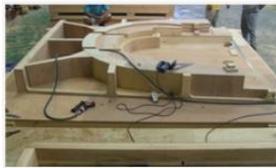
# I 제조 공정



1. Reviewing casting plans



2. Making wooden model



3. Molding



4. Melting



5. Analyzing Ingredients



9. Shot Blast



8. Heat Treatment



7. Cutting & Gouging



6. Pouring



10. Rough Machining



11. NDE



12. Repair



13. Stress / Relief annealing



14. Shot Blast



15. Dimension & Visual Check



16. Delivery



# 제품소개



Shipbuilding



Valves



Pumps



Bridge



Wind Power



Social Overhead  
Capital



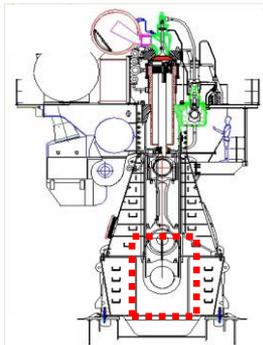
Plant



Hydro Power

# 생산 Item

- 1) Man type : S42MC ~ K98ME / WCH type : RTflex48T ~ RTflex96C
- 2) 재질 : S17F, S18F, S17MoF, SC480, SCW410, GE200, SCPH21



**Main Bearing Support**



MAN TYPE



WARTSILA TYPE

MAN TYPE



▲ Cylinder Cover

WARTSILA TYPE



CRANK



▲ Chain Wheel

CAM SHAFT



Ship Building

# 생산 Item

- 1) 재질 : SC450, SC480, SCW550
- 2) 제품 중량 : 1,000kg~12,000kg



▲ Rudder Casting



▲ Propeller Boss



▲ Stern Boss



▲ Rudder Carrier



▲ Cable Lifter



▲ Bell Mouth



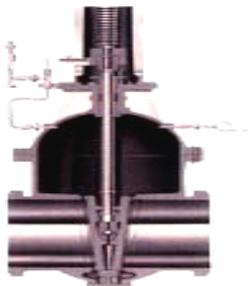
▲ Tiller



Ship  
Building  
Industry

# 생산 Item

- 1) 재질 : ASTM C5, ASTM CF8C, WCB
- 2) 제품 중량 : 1,000 Kg ~ 12,000 Kg



▲ SG-V TYPE VALVE



▲ Body



▲ Bonnet



▲ Disc

## Valve part



▲ Control Valve



▲ Globe Valve



▲ Check Valve

# 생산 Item

- 1) 재질 : SCS16, SCS13, SCS10, CD4MCu, CF3M, CF8M
- 2) 제품 중량 : 1,000 Kg ~ 10,000 Kg



▲ Elbow



▲ Suction Bell



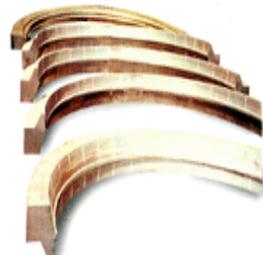
▲ D/Bowl



▲ Casing



▲ Blade Ring



▲ Diaphragm



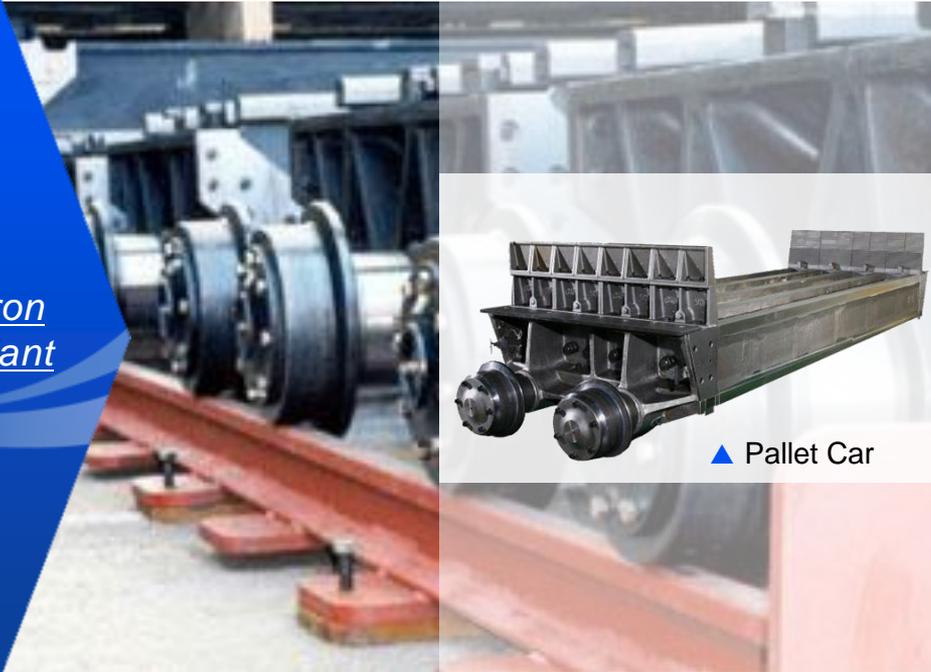
▲ Pump Casing



Power  
plant

# 생산 Item

Iron  
plant



▲ Pallet Car



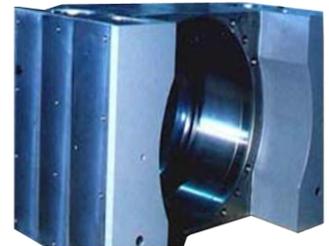
▲ Trunnion Shaft



▲ Slag Pot



▲ Bottom Frame



▲ Roll Chock

# 생산 Item

- 1) 재질 : SC450, SC480
- 2) 제품 중량: 1,000 Kg ~ 14,000 Kg



▲ Top Shell



▲ Top Frame



▲ Swing Jaw

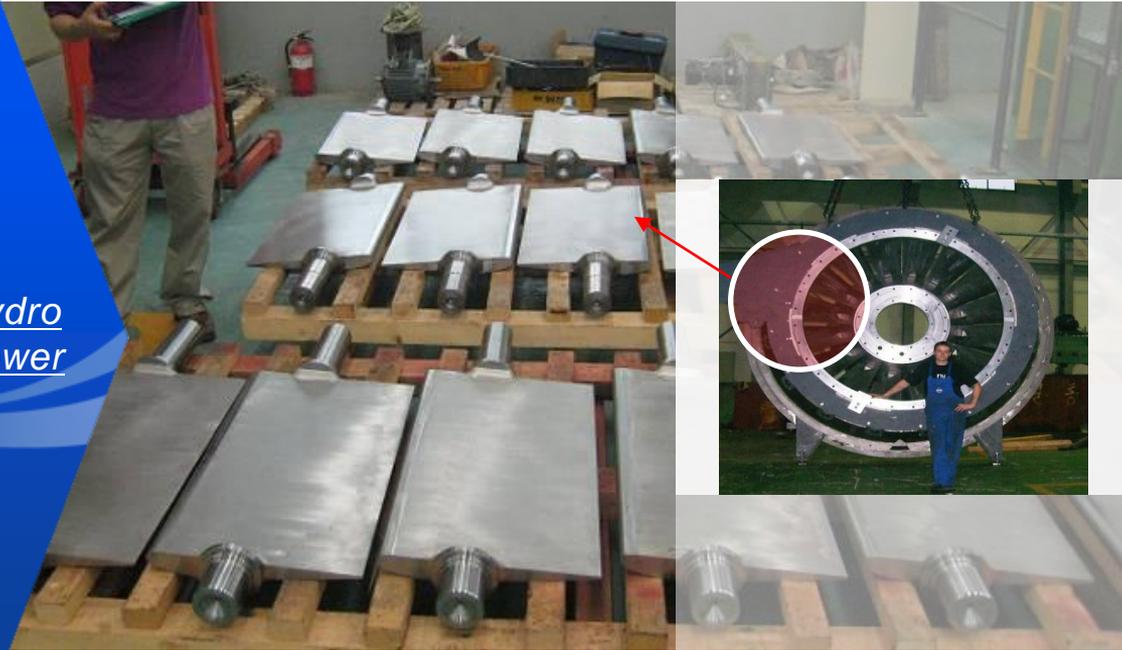


Crusher  
Plant

# 생산 Item

- 1) 재질 : G-X4CrNi13.4 QT1,2 / CA6NM/ G20Mn5 QT
- 2) 제품 중량 : 200 Kg ~ 3,000 Kg

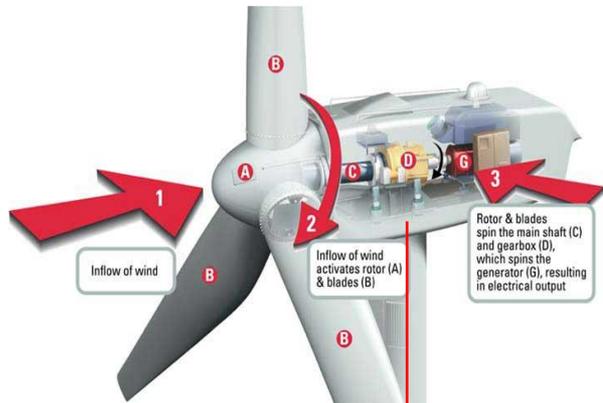
Hydro  
Power



▲ Wicket Gate & etc.

# 생산 Item

- 1) 재질 : G32NiCrMo8-5-4, G18NiMoCr3-6
- 2) 제품 중량: 3,500 Kg ~ 5,800 Kg (1.5MW ~ 3MW)



Wind Power part



▲ Planetary Carrier



▲ 1.5MW



▲ 1.65MW



▲ 2MW



▲ 3MW

# 생산 Item



인천 국제공항 영종 대교



보스포라스교



▲ Cable Band



▲ Wind Shoe



▲ Tower Saddle

Bridge Industry

# 생산 Item

Social  
Overhead  
Capital



▲ 상암 월드컵 경기장



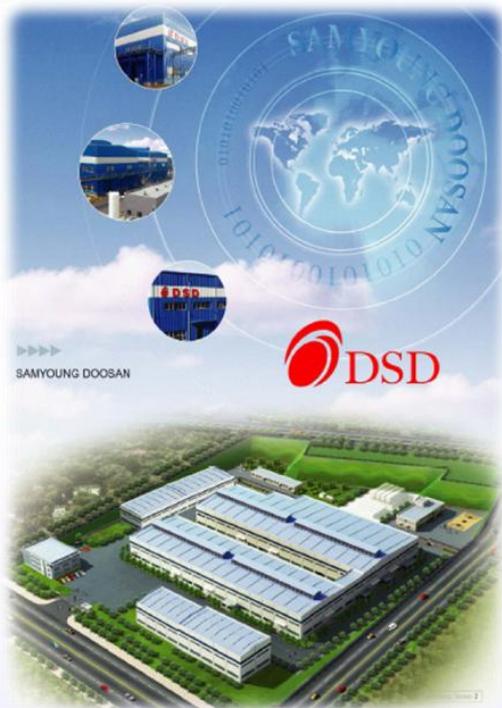
▲ Suvarnabhumi 방콕 공항

# SAMYOUNG P-TEK



1. 명칭  
삼영 파워텍(울산공장)  
가공 & 조립 공장
2. 설립년월  
2011년 8월
3. 면적  
6,962m<sup>2</sup>
4. 종업원  
30 명

# 중국 공장 D.S.D.



## 1. 명칭

Dalian Samyoung Doosan metal Product Co.,Ltd

## 2. 주소

Dagushan, Dalian, Development Zone, China

## 3. 설립 연도

2006년 8월



# 중국 공장 DSD 설비 현황

## Main Facilities

Name of Facility	CAPACITY	Quan'ty	Remark
-Induction furnace	12 Ton – dual type	2EA	
-Ladle	25 Ton, 15 Ton, 5 Ton	5EA	
-Sand Reclaimer	20TON / HR	1EA	
-Sand Mixer (Continuous Mixer)	30, 15, 5Ton	4EA	α-set
-Heat Treatment ( Nor, Tempering, Annealing )	30, 20Ton	3EA	LPG
-Shot Blasting	30ton	2EA	
-Floor Boring M/C	5500 * 2500 * 1500 8000 * 3000 * 2400 3000 * 2000 * 1000 8000 * 2000 * 2000 6000 * 2000 * 1500	1EA 1EA 2EA 1EA 1EA	Germany China China Poland Japan
-Turning Machine M/C	Ø4500 * 4500 * 2500 Ø3150 * 3150 * 2000 Ø4000 * 4000 * 2000 Ø5000 * 5000 * 2000	1EA 1EA 1EA 1EA	Germany China China China

## Main Main Testing Machine

Item	Type	Capability	Quantity	Remark
-Spectrometer	Metal Lab (70-80)	40Ch	1	G.N.R(ITA)
-Universal Test Machine	WAW-600C	600KN	1	SHIDAISHIJIN(CHI)
-Charpy Impact Test	JB-S300	300J	1	SHIDAISHIJIN(CHI)
-Brinell Hardness Test	HB-3000B	3000kgf	1	SHIDAISHIJIN(CHI)
-Rockwell Hardness Test	HR-150A	150kgf	1	SHIDAISHIJIN(CHI)
-Portable Hardness Test	Eco-tip	-	1	LAIZHOHUAYIN(CHI)
-Roughness Tester	SJ-201	-	1	MITUTOYO(JPN)
-Coating Thickness Tester	QNIX4200	-	1	AUTOMATION(GER)
-Metallographic Microscope	LW200-4CS	×40 ~ ×500	1	SHANGHAI(CHI)
-Profile Projector	CM300-B	X100	1	SHANGHAIJINXIANG(CHI)
-Digital Intensity Tester	XQY-II	0 - 1.5Mpa	1	WUXISANFENG(CHI)
-Permeability Tester	ZTY	0 - 24.5	1	WUXISANFENG(CHI)



*Thank you*  
*SAMYOUNG M-TEK*