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# INSUNG MACHINERY INTRODUCTION

**INSUNG**  
MACHINE TOOLS

주식회사인성기계  
**INSUNG** machinery co., Ltd.

# LARGE MACHINE TOOLS

www.ismc.kr

대형공작기계, 주문형정밀가공기 제작업체

## INSUNG SPECIAL MACHINE TOOLS



INSUNG  
MACHINE TOOLS

주식회사인성기계  
INSUNG machinery co.,Ltd.

대형공작기계, 주문형 정밀가공기계  
광주광역시 북구 청안로 366(연재동1051)  
TEL. 062-945-8167 HP. 010-8613-4346(최경민)



▲수직선반 시리즈  
스랄: 1600, 2000, 2500, 3500, 4500mm  
CrossType: 고정형, 상하이동형



▲ 5축 MCT (INDEX TABLE, ATC40본)  
4축MCT: 테이블크기 800x200 / 주축 H-V Type  
테이블: 360-0.001분할, 경사 0-90도



▲ 4축 MCT (INDEX TABLE, ATC40본)  
4축MCT: 테이블크기 800x200 / 주축 H-V Type  
테이블: 360-0.001분할, 경사 0-90도



▲양두 머시닝센터(ATC 30본)  
인덱스 테이블: 400x400, 600x600 / 3000rpm  
일반 테이블: 1000x2500, 1500x3000, / 3000rpm



▲ 수평선반 시리즈  
스랄: 1500, 1800, 2000, 2200 mm  
센터가: 3000, 5000, 8000, 10000



INSUNG machinery

# INTRODUCTION

## *Tailored Solutions for Any Job Application*

### ● Introduction

Since establishment in 1984, we, INSUNG Machinery Co., Ltd., Korea, have Manufactured large sized special purpose machine tools, which requires 'special Solutions for Special Job Applications' besides fulfilling general purpose of the machine.

1. Chemical	CNC Tube Sheet Drilling Machine / CNC Pipe Drilling Machine	Boiler Header Box Tube Sheet / Boiler Pipe Header Box
2. Bridge Construction	CNC Drilling Machine CNC Gantry Type Drilling Machine	Gussets Plate / Splice Plates
3. Marine Shipbuilding	CNC Double Column Machining Center / CNC Large Horizontal Lathe CNC Large Vertical Lathe / CNC 10-Axis Modeling Machine	Engine Box / Engine Shaft Frame Engine Crankshaft / Model Ship Modeling
4. Construction Machine	CNC Duplex Head Boring Machine CNC Gantry Type Machining Center CNC Vertical Lathe CNC Rotating Table Drilling Machine	Boom Frame / Middle Frame / Slewing Bearing Hard Turning Slewing Bearing, Drilling, Tapping
5. Car Tire Mold	CNC Rotating Table Type 5-Axis Machining Center CNC Indexing Table Type Twin Head Machining Center CNC Lettering Machine	Tire Mold and Container Machining Mold Base Square Face Drilling, Tapping Tire Mold Side Lettering
6. Alternative Energy	CNC Vertical Lathe / CNC Rotating Table Drilling Machine	Wind Power Bearing Hard Turning Wind Power Bearing Drilling, Tapping
7. Steel	CNC Heavy Duty Roll Lathe / CNC Heavy Duty Large Lathe	Roll Turning and Milling / Grooving / Large Workpiece Hard Turning

# BRIEF HISTORY

## ● Brief History

- 1984. 04 Established Gigong Industry in Gwang-ju City, Korea
- 1991. 01 Developed CNC Gantry and Table Moving Type Drilling Machine 6 Models
- 1993. 02 Developed Education CNC Machining Center, CNC lathe, F.M.S Line 4 Models
- 1994. 01 Developed CNC Plano Miller Quill / Ram Type 2 Models
- 1995.08 Nominated as The Promising Company for Advanced Technology by The Ministry of Commerce Industry of Korea
- 1996. 05 Developed CNC Index Table Type 6 Models, Mold Tilting Table Type 2 Models
- 1997. 02 Supplied CNC Table Type Drilling Machine to Sumitomo Heavy Industry and TOMO Industry, Japan
- 1997. 06 Developed 5-Axis Tire Container Mold Machine, 4- Axis Lettering Machine, 5-Axis Engraving Machine 3 Models
- 1999. 01 Nominated as The Best Technology Company by The Small and Medium Business Administration of Korea
- 1999. 12 Optical Communication Business
- 2000. 04 Agreed for Joint R & D of Optical Technology with Gwang-ju Science Technology Institute
- 2001. 06 Completed Ferrule Production Line 1 Million set per month for PRIMEPOTEK, Korea
- 2002. 04 Exported Ferrule Production Line 2.5 Million set per month for YUNSHENG Group, China
- 2004. 02 Changed Name of "INSUNG MACHINERY"
- 2006. 01 Supplied CNC Chock Fit Roll Turning Lathe to POSCO, Korea
- 2007. 08 Developed special purpose CNC Vertical Turning Lathe for Wind Power Bearings
- 2008. 11 Developed CNC Floor Type Boring & Milling Machine
- 2009. 01 Developed Wind Power Bearing Hard Turning Vertical Lathe
- 2012. 03 Supplied Tire Mold 5-Axis Machining Center for HANKOOK Tire World Factory
- 2013. 06 Supplied Horizontal Twin Head Machine Center for SAMSUNG Mold Machining
- 2014. 08 Factory Expansion
- 2015. 09 Developed Diameter 3,500mm Twin Ram Vertical Lathe of 3.5G Wind Power Bearing 2 Face Hard Turning
- 2015. 10 Opened China Office and German Office

# ISO 9001, 14000 CERTIFICATION

## Certificate of Registration

This is to certify that:

**Insung Machinery Co. Ltd.**

366, Cheomdanyeonsin-ro, Buk-gu, Gwangju, 61088, Korea

has implemented and effectively applies a

**Quality Management System**

which complies with the requirements of

**KS Q ISO 9001:2015 / ISO 9001:2015**

For the following scope

**Design, Development and Manufacture of  
Industrial Machine, Factory Automated Machine and Jig**

Certificate No. QAGMR160014  
Originally certified on: June 15, 2007  
Date of Issue: July 21, 2017  
Expiry Date: June 13, 2019



Authorized by:

*[Signature]*  
Joo Bong-Kyu, President

Lack of fulfillment of conditions described in the "Guide for Certification Process" may render this certificate invalid.



Mark indicates that GMR is accredited by Korean Accreditation Board for Quality Management System. (No. KAB-OC-43)



Mark indicates that GMR is accredited by the member of the International Accreditation Forum Multilateral Recognition Arrangement.

GM Registrar Inc. (3F Leaders Bldg., Seocho-dong) 63, Seochojungang-ro, Seoul, 137-012, Korea

## Certificate of Registration

This is to certify that:

**Insung Machinery Co. Ltd.**

366, Cheomdanyeonsin-ro, Buk-gu, Gwangju, 61088, Korea

has implemented and effectively applies a

**Environmental Management System**

which complies with the requirements of

**KS I ISO 14001:2015 / ISO 14001:2015**

For the following scope

**Design, Development and Manufacture of  
Industrial Machine, Factory Automated Machine and Jig**

Certificate No. EAGMR160010  
Originally certified on: June 15, 2007  
Date of Issue: July 21, 2017  
Expiry Date: June 13, 2019



Authorized by:

*[Signature]*  
Joo Bong-Kyu, President

Lack of fulfillment of conditions described in the "Guide for Certification Process" may render this certificate invalid.



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GM Registrar Inc. (3F Leaders Bldg., Seocho-dong) 63, Seochojungang-ro, Seoul, 137-012, Korea

Global Management Registrar

Global Management Registrar

# CE CERTIFICATION



## Certificate of conformity with the following European Directives

Registered No.:  
**K8403/M14**


Machinery Directive 2006/42/EC

Reference of applicant	Date of application	File reference	Tech. report No.	Date of issue
-	19.05.2014	KP-14-197	K7700/M14	27.05.2014

This is to certify that the following products comply to the essential requirements (Annex 1) of the above mentioned European Directive and the following standards, taking into account the German national deviations:

**Product:** MACHINING CENTER  
**Type designation:** ISRC-160HV, ISTC-16HV  
**Applicant:** INSUNG MACHINERY CO., LTD.  
 1051 Yeonje-dong, Buk-gu, Gwangju city, Korea  
**Standard(s):** EN ISO 12100:2010  
 EN 60204-1:2006 + A1:2009  
 EN ISO 23125: 2010

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

  
 Certification Body for Product Safety

TÜV NORD Korea Ltd.  
 Tel: +82-2-6000-4222  
 Fax: +82-2-6000-4223  
 E-mail: tnk@tuv-nord.com

CE The CE marking can be affixed on the product if all relevant and effective Directives are complied with. CE



## Certificate of conformity with the following European Directives

Registered No.:  
**K8404/M14**


Machinery Directive 2006/42/EC

Reference of applicant	Date of application	File reference	Tech. report No.	Date of issue
-	05.05.2014	KP-14-197	K7701/M14	27.05.2014

This is to certify that the following products comply to the essential requirements (Annex 1) of the above mentioned European Directive and the following standards, taking into account the German national deviations:

**Product:** CNC VERTICAL LATHE  
**Type designation:** ISVTL-1620F, ISVTL-1620, ISVTL-2025, ISVTL-2535  
**Applicant:** INSUNG MACHINERY CO., LTD.  
 1051 Yeonje-dong, Buk-gu, Gwangju city, Korea  
**Standard(s):** EN ISO 12100:2010  
 EN 60204-1:2006 + A1:2009  
 EN ISO 23125: 2010

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

  
 Certification Body for Product Safety

TÜV NORD Korea Ltd.  
 Tel: +82-2-6000-4222  
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 E-mail: tnk@tuv-nord.com

CE The CE marking can be affixed on the product if all relevant and effective Directives are complied with. CE

# THE SAFETY SELF-CONTROL CERTIFICATION



## 수출유망중소기업지정증

제 15광주-전남-27호

업체명 : ㈜인성기계 (사업자등록번호 : 410-81-86112)  
 생산품목 : 가공공작기계  
 주소 : 광주 북구 첨단연신로 366  
 대표자 : 최영민



귀사를 중소기업수출지원센터의 설치 및 운영에 관한 규정에 따라 2015년도 수출유망중소기업으로 지정함

지정기간 : 2015. 6. 1 ~ 2017. 5. 31

2015. 6. 5



광주·전남지방중소기업청장(수출지원센터장)

## 자율안전확인 신고증명서

신청인	사업장명	(주)인성기계	사업장관리번호	410-81-861120
	사업자등록번호	410-81-86112	대표자성명	최영민
	소재지	(506-500) 광주 광산구 평동로803번길 122(옥동)		

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자율안전인증대상 기계,기구명


		공작기계	
형식(규격)	ISDOM-0606	용량(등급)	18.5 kw
자율안전확인번호	14-AF1Eb-00116		
제조자	(주)인성기계		
소재지	(506-500) 광주 광산구 평동로803번길 122(옥동)		

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「산업안전보건법」 제35조제1항 및 같은 법 시행규칙 제61조제3항에 따라 자율안전확인 신고증명서를 발급합니다.

2014 년 06 월 11 일

한국산업안전보건공단 광주지역본부장



## ■ Lettering-4x, Engraving-5x MACHINE TIRE MOLD

Head 3-axis(X, Z, B-Tilting)  
Table 1-axis(C-axis)-Lettering  
Table 2-axis(C-axis, Y)-Engraving▶

- SPINDLE (high frequency motor)
- FEED : 4,000 mm/min
- 3-AXIS X750mm / Y750mm / Z500mm
- C-AXIS 360 / Table rotating
- B-AXIS +- 60 / Head tilting
- A,T,C 20~40pcs





## ■ 5-AXIS H+V Head, Table Index+Tilting Type TIRE MOLD / GANTRY TYPE

### HANKOOK, KUMHO TIRE CONTAINER MOLD

3-axis(U/Down, R/Left, F/Back)  
2-axis(indexing,Tilting) ▶

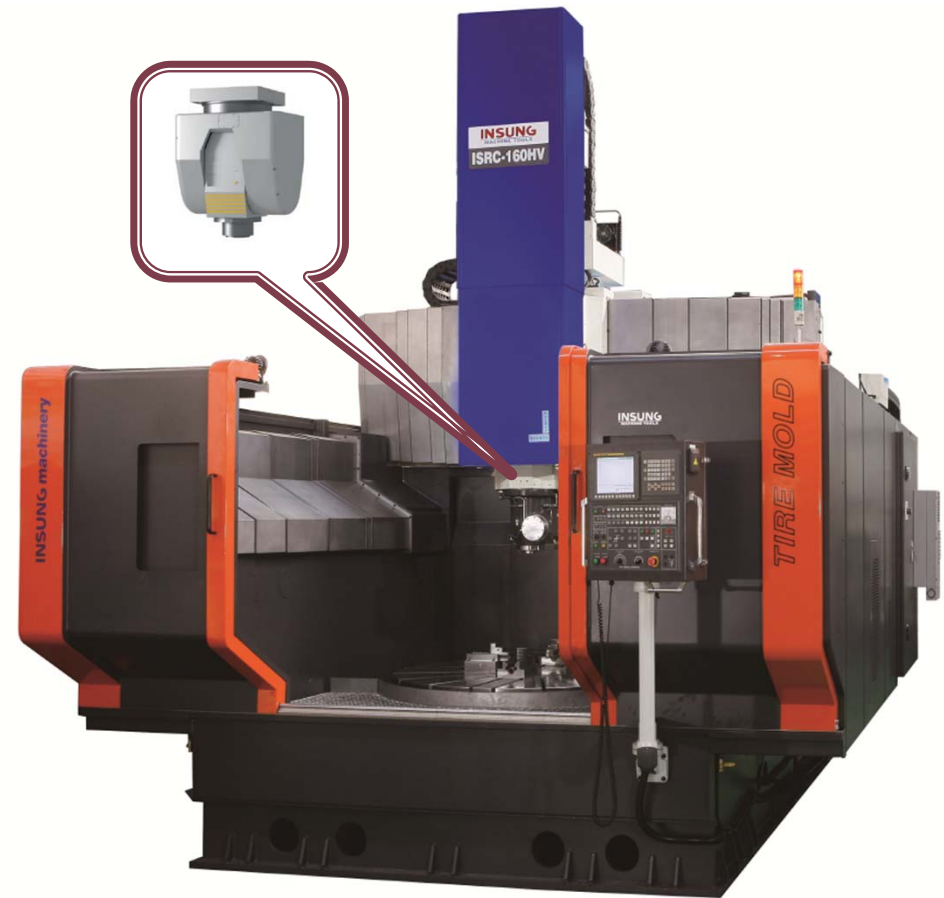
- SPINDLE (H+V MULTI HEAD)
- Travel: X1,800 / Y1,600 / Z900mm
- 3-AXIS CONTROL
- C-AXIS: 360degree indexing
- B-AXIS: +75 ~ -15 tilting
- milling& end-mill, drilling& tapping
- A,T,C : 40Tools(V20&H20)



## ■ 5-AXIS Universal Tilting Head Type

### ◇ 5-Axis Machining Center

- Spindle Speed : 20,000rpm
- Travel: X2,250mm / Y1,800mm / Z900mm
- Universal Tilting Head : C-axis 360°  
B-axis  $\pm 110^\circ$
- Spindle Taper: HSK A100
- Motor Power: 40kw
- Max. Torque: 270Nm
- Spindle Speed : 15,000rpm



## ■ 4-AXIS H+V Head, Index Table Type TIRE MOLD / COLUMN MOVING

### ◇ TIRE MOLD MACHINING CENTER(HORIZONTAL AND VERTICAL HEAD TYPE)

#### ▷ Drilling, Tapping, Boring, Facing

- Spindle Speed : 2,000rpm
- Travel : X1,060mm / Y1,270mm / Z1,165mm / C360degree
- Horizontal + Vertical HEAD
- Index Table : Dia.1200x1,000mm



## ■ DUPLEX HEAD, INDEX TABLE MOLD DIE

### ◇ ELECTRIC HOME APPLIANCES MOLD DIE

#### ▷ Drilling, Tapping, Threading, Boring, Facing

- Spindle Speed : 3,000rpm
- Rapid : 12,000 mm/min
- MAIN MOTOR: 22/30kw
- INDEX TABLE : 600x600 mm



## ■ LM GUIDE RAIL Hole Drilling Machine **LM GUIDE DRILLING**

### ◇ Specification

1. Table Size 4,000x650mm
2. Work Piece : Hydraulic Type The Upper Side, Side View Automatic Clamping
3. MAIN MOTOR: 18.5kw
4. Work Piece : High Pressure Blowing
4. Twin Head [max. 1~6,000rpm]
5. Through Spindle, Side View - High Pressure Coolant



## ■ DOUBLE COLUMN MACHINING CENTER

### ◇ SPECIFICATIONS

- ▷ Facing, Drilling, Tapping, Threading, Boring
- Spindle Speed : 3,000rpm
- Rapid : 12,000 mm/min
- MAIN MOTOR: 37/45kw
- TABLE : 2,500x6,000 mm



## ■ DOUBLE COLUMN GANTRY TYPE MACHINING CENTER

### ◇ SPECIFICATIONS

- ▷ Facing, Drilling, Tapping, Threading, Boring
  - Spindle Speed : 3,000rpm
  - Rapid : 12,000 mm/min
  - MAIN MOTOR: 30/37kw
  - TABLE : 4,000x8,000 mm



## ■ SHIPBUILDING PARTS 5-AXIS SHIP MODELING MACHINE

### ROUGHING OPERATION ▶

- **SPINDLE SPEED :**  
6,000 ~ 30,000 rpm
- **5-AXIS Control**
- **High frequency motor:22kw**
- **Width: 5,000mm**
- **Length: 15,000mm**
- **Up/Down travel: 2,600mm**
- **A,T,C 16, 20, 40Tools**





## ■ CNC VERTICAL LATHE TWIN HEAD TYPE

- ◇ Table diameter : Single Head - 2500, 3500, 4500
  - ▷ GE WINE POWER BEATING Finishing grinding process
  - ▷ SUFACE Ra 0.2~0.4um : Wind Power BEARING 2.5MW



## ■ CNC VERTICAL LATHE CROSS RAIL FIXED TYPE

### ◇C,N,C VERTICAL LATHE

- ▷ HANKOOK TIRE MOLD FACTORY:
  - Table Size: 1200, 1600, 2000mm
  - Hydraulic Chuck
  - ▷ Surface accuracy: 0.3~0.6um



## ■ CNC VERTICAL LATHE CROSS RAIL ELEVATOR TYPE

- ◇ CNC VERTICAL LATHE: Table diameter 1200, 1600, 2000, 2500, 3500, 4500
- ▷ TURN-MILL and Grinding Lathe



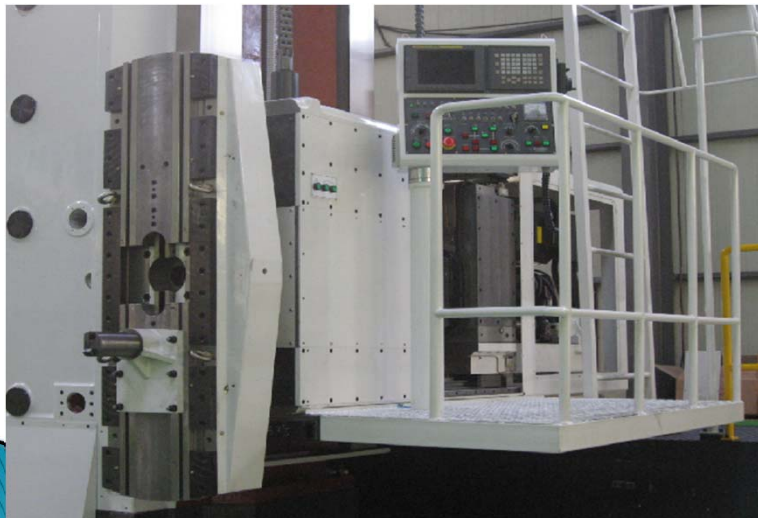
## ■ CNC TABLE INDEX TYPE DRILLING & TAPPING TWIN HEAD

- ◇ DRILLING , TAPPING TWIN HEAD / Table dia. 2500, 3500, 4500
- ▷ GE WIND POWER BEARING
- ▷ SIZE: 2.5MW ~ 6MW



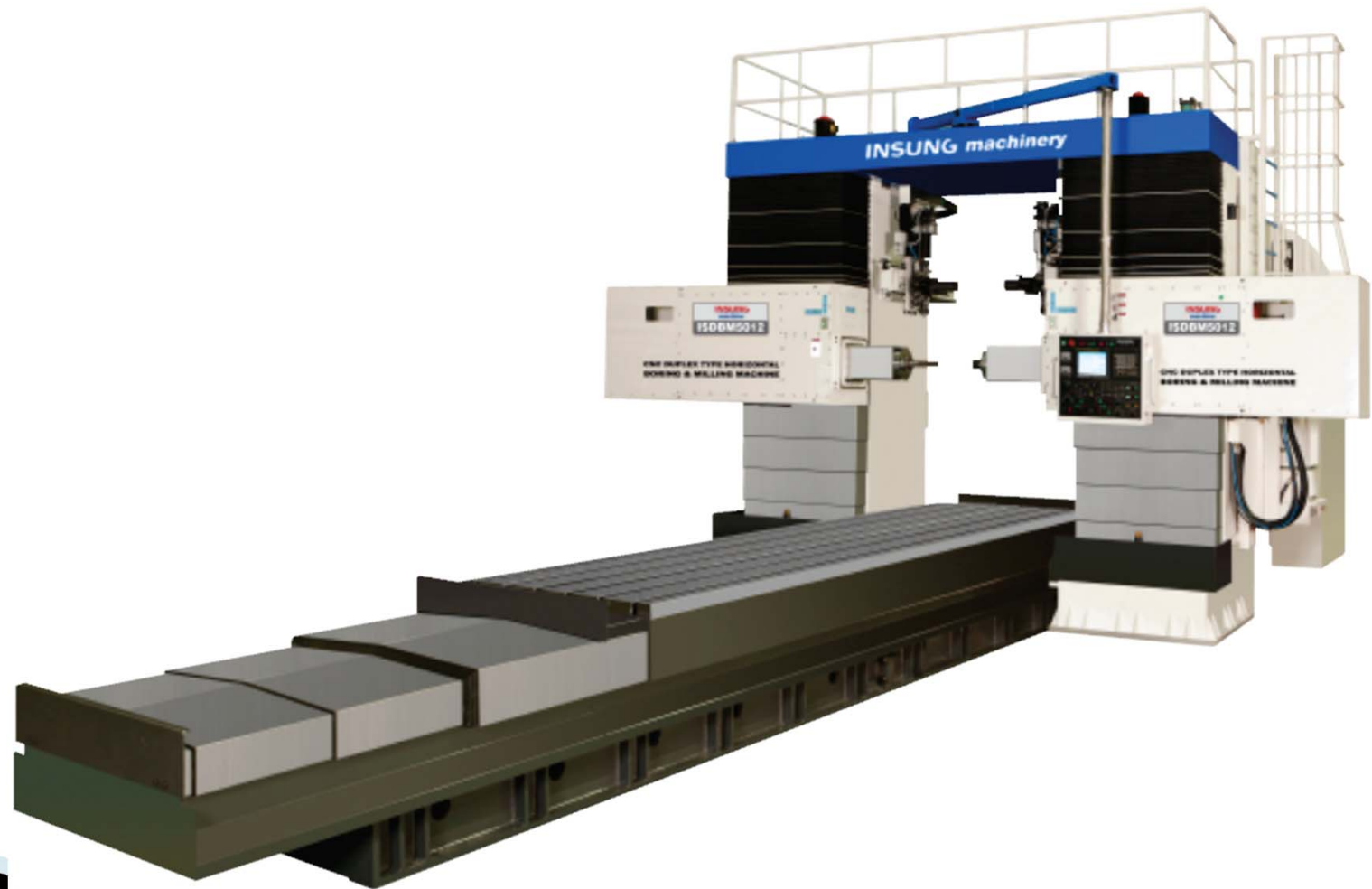
## ■ CNC FLOOR TYPE MILLING, BORING, FACING MACHINE

- ◇ FACING ATTACHED (Dia 1,600~2,500)
  - Quill Size : 150, 160 mm



## ■ CNC DUPLEX TYPE BORING, Milling, TAPPING

- ◇ EXCAVATOR BOOM BORING & MILLING MACHINE
  - ▷ Table Width x Length: 1200x5000, 1200x7000, 1500x9000
  - ▷ Twin Boring Head, Table Change System: optional



## ■ LARGE HORIZONTAL LATHE

- ◇ **LARGE HORIZONTAL (Swing1200,1400,1600, 1800,2000, 2400)**
- **Controller : FANUC**
- **Tool Size: 40x40**
- **Cutting Length : 3,000~10,000mm**
- **Tool Post Size: 420x420 Square Type**
- **Bed Swing: dia 1,600~2,400 mm**
- **Tail Stock Quill dia. : dia260~350mm**



## ■ WIND POWER BEARING GROOVE GRINDING

### ◇ POWER BEARING GROOVE GRIND M/C (Swing5000)

- Controller : FANUC
- Dress Type : 90 Rotary
- Wheel Size: 350, 400 Type
- Bed Swing: dia . 2,500~5,000 mm

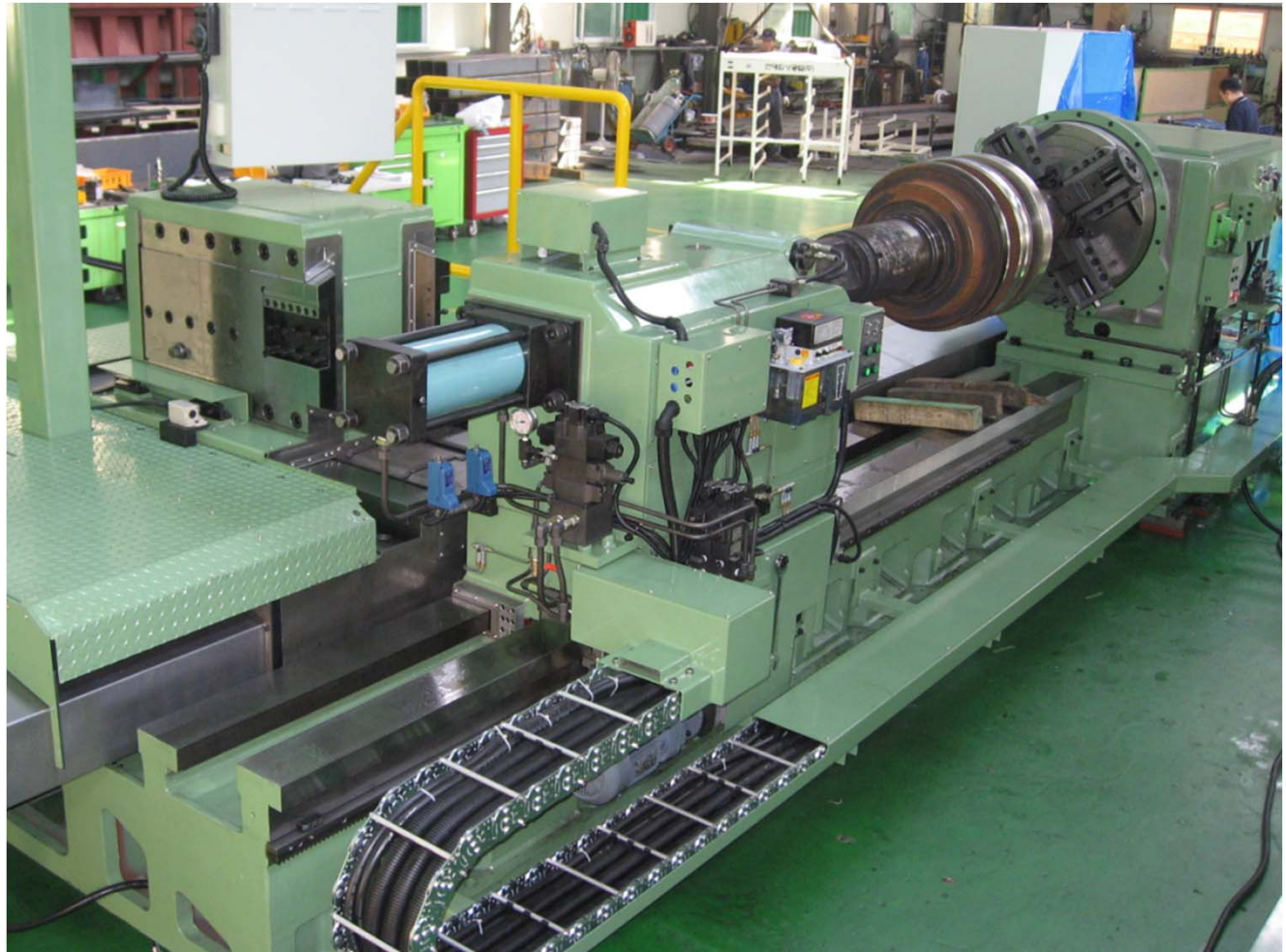




## ■ HEAVY DUTY CNC ROLL LATHE

◇ Roller Diameter 800~1500/ Between Center Distance: 3000~6000mm)

- SPINDLE SPEED :  
1~200 rpm
- FEED : 1,000 mm/rev
- Main Motor: 60~100kw
- Controller: FANUC
- Tool Post: Two Lamella Type
- Tail Stock Quill dia. : dia260mm
- Tail Stock: Hydraulic Cylinder



## ■ CNC CHOCK ROLL LATHE SIDE MILLING, TURNING

◇ POSCO (Swing2000x6500mm Roll Weigh t30~80ton)

- ▷ CHOCK ROLL Turning and Check Hole Cutting
- ▷ CHOCK Automatic Setting System



# HEAD OFFICE/ FACTORY ADDRESS



## ■ Exported Country and Business Office

- U.S.A
- Czech
- Hungary
- Italy
- Russia
- Dubai
- India
- Indonesia
- China(Shanghai - Beijing)
- Japan
- Singapore
- Brazil

- Canada
- Chicago
- Atlanta
- Mexico

## OUR OFFICES

### **INSUNG** machinery *co., Ltd.*

#### **Korea Head Office / Factory**

Address : #366, Cheomdannyeonsin-ro, Buk-gu, Gwangju city, Korea  
Tel. : +82 62 945 8167 / +82 10 8613 4346(yeongmin Choi) Fax : 82-62-945-8166  
E-mail : ymchoi1104@hanmail.net

#### **China Beijing office**

Address : B2306, Chaowai men office Building, No. 26,  
Chaowai st, Chaoyang Aistrict, Beijing  
Mobile : +86 1380-1268810  
E-mail : insungbj@163.com

#### **Germany Frankfurt office**

Niebergallweg30 65824 Schwalbach/a. Ts Germany  
Tel. : +49 6196 533 964 Fax : 49-3222-6868-158  
E-mail : hansmoon@fmhouse.net



**INSUNG** machinery

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**THANK YOU**