



Precision Die & Die Cast



SHIN-EI HIGH TECH CO.,LTD.  
SHIN-EI PRECISION (THAILAND) CO.,LTD.  
SHIN-EI HIGH TECH CO., LTD – CUTTING TOOL&JIG DIVISION

# SHIN-EI GROUP



## JAPAN

### AICHI JAPAN TECH CO.,LTD.(AJT)

60 NISHISHIMIZU , KABUTO-CHO, TSUSHIMA-SHI, AICHI, JAPAN  
TEL: 090-5732-7126

## THAILAND

### SHIN-EI HIGH TECH CO.,LTD. - SURANAREE PLANT

183 MOO 3 SURANAREE INDUSTRIAL ZONE , RATCHASIMA-CHOKCHAI RD.,TAMBOL NHONGBUASALA AMPHUR MUANG, NAKHONRATCHASIMA 30000 THAILAND  
TEL : +66-4421-2008-9, +66-4421-2931-32 FAX : +66-4433-4881

### SHIN-EI HIGH TECH CO.,LTD. - NAVANAKORN PLANT

777 MOO 1 ,MITTRAPAP RD. TAMBOL NAKLANG AMPHUR SUNGNEON NAKHONRATCHASIMA 30380 THAILAND  
TEL : +66-4400-0661, +66-4400-0670-74 FAX : +66-4400-0662

### SHIN-EI PRECISION (THAILAND) CO.,LTD. -ROJANA AYUTTHAYA PLANT

77 MOO 4 ROJANA INDUSTRIAL PARK PLOT NO.32, TAMBOL BANCHANG, AMPHUR U-THAI PRANAKORN SRI-AYUTTHAYA (KRUNGKAO) 13210 THAILAND  
TEL : +66-3574-6925-8 FAX : +66-3574-6929

### SHIN-EI HIGH TECH CO.,LTD. CUTTING TOOL&JIG DIVISION

#### WANG NOI - AYUTTHAYA PLANT

118/1 MOO 5 TAMBOL LAMSAI, AMPHUR WANG NOI, PRANAKORN SRI-AYUTTHAYA 13170 THAILAND  
TEL : +66-3595-0920-3 FAX : +66-3595-0924

## USA

### SHIN-EI NORTH AMERICA LLC

3330 CUMBERLAND BLVD SE, SUITE 440, ATLANTA, GA 30339  
TEL (+1)678-402-1011

## MEXICO (QUERETARO)

### SHIN-EI MEXICO

PASEO DE LA REPÚBLICA KM 13020, JURICUILLA, QUERETARO 76230, MEXICO.

## CZECH REPUBLIC (PRAGUE)

### SHIN-EI CZECH

SPACES, NILE HOUSE, KAROLINSKA 654/2 PRAGUE 186 00, CZECH REPUBLIC

## JAPAN

### NSC CO.,LTD.(HEAD OFFICE)

1-3-7 SHINKE HIGASHI-OSAKA, OSAKA 577-0025, JAPAN  
TEL : (06) 6789-1118 FAX: (06) 6785-5555

### NSC CO.,LTD. - OKAYAMA FACTORY

975-10 KAMIFUKUHARA, MIMASAKA-SHI, OKAYAMA-KEN, 709-4246 JAPAN  
TEL: (08687) 5-9789 FAX: (08687) 5-7569

## CHINA

### DONGGUAN XIN RONG PRECISION AUTOMOTIVE PARTS CO.,LTD.

MACHINERY INDUSTRIAL ZONE, DALING SHAN DONGGUAN CITY, GUANGDOUN, CHINA  
TEL : (0769) 335-4742 FAX: (0769) 335-4743

### ASTONAL LTD.

23 RD FLOOR CHEUNG KONG CENTER 2 QUEEN'S ROAD CENTRAL HONGKONG

## MANAGEMENT POLICY

### Get over The Depression

- We commit to contribute for society development through advanced manufacturing technology and long term accumulated techniques.
- We shall constantly prioritize customer satisfaction and produce the best quality product for all customers.
- We shall make efforts to create our company to be comfortable and safe.
- We shall promote stabilized control and continuous improvement through quality management system

## Activity Policy Emphasis

1. Safety First  
Prioritizing safety while creating a workplace
2. Outstanding Quality  
Achieve customer satisfaction with the world's best quality products
3. Develop production's efficiency  
Create the production system that is appropriate most
4. Cost Reduction  
Remove Muri, Mura and Muda completely
5. Stabilization  
Observe discipline, rule, standard and time to win a customer's trust
6. Make workplace cleanly  
Promote 5S activity continuously
7. Give the knowledge  
Develop aspiring human resources with great company spirit

## INTRODUCTION OF CHAIRMAN



**KUNIO NISHIMURA**  
CHAIRMAN

of  
**SHIN-EI HIGH TECH CO.,LTD.**  
**SHIN-EI PRECISION (THAILAND) CO.,LTD.**  
**SHIN-EI HIGH TECH CO.,LTD. CUTTING TOOL&JIG DIVISION**

SHIN-EI GROUP

JAPAN

◎ AICHI



AICHI JAPAN TECH CO.,LTD.(AJT)

2020	Established AICHI JAPAN TECH CO.,LTD.
2022	Beginning Planning to start operation
Plant Areas	Total Factory space 1,459.00 m <sup>2</sup> Warehouse total space 875.00 m <sup>2</sup>
Main Business	Technical Center of Die Casting and Machining

THAILAND

◎ SURANAREE NAKHONRATCHASIMA



SHIN-EI HIGH TECH CO.,LTD. - SURANAREE PLANT

1994	Established SHIN-EI HIGH TECH CO.,LTD. NAKHONRATCHASIMA
1995	Started Manufacturing
2000	Achieved ISO9001:2000
2007	Achieved ISO14001:2004
2009	Achieved ISO9001:2008
2012	Achieved TS16949
2018	Achieved IATF 16949:2016
Plant Areas	Land Space 57,600 m <sup>2</sup> (36 RAI) Total Floor Space 29,229 m <sup>2</sup>
Main Business	Mold Making , Die Casting, Machining of Automotive Parts

◎ NAVANAKORN NAKHONRATCHASIMA



SHIN-EI HIGH TECH CO.,LTD. - NAVANAKORN PLANT

2006	Started Manufacturing
2008	Achieved ISO14001:2004
2009	Achieved ISO9001:2008 , Achieved TS16949
2018	Achieved IATF 16949:2016
Plant Areas	Land Space 129,128 m <sup>2</sup> (80 RAI) Total Floor Space 30,052 m <sup>2</sup>
Main Business	Die Casting, Machining of Automotive Parts

◎ ROJANA AYUTTHAYA



SHIN-EI PRECISION (THAILAND) CO.,LTD. (ROJANA AYUTTHAYA PLANT)

2001	Established SHIN-EI PRECISION (THAILAND) CO.,LTD.
2002	Started Manufacturing
2003	Achieved ISO9001:2000
2006	Achieved ISO14001:2004
2008	Established SHIN-EI PRECISION (THAILAND) CO.,LTD.
2014	Achieved TS16949
2018	Achieved IATF 16949:2016
Plant Areas	Land Space 33,403 m <sup>2</sup> (20 RAI) Total Floor Space 10,460 m <sup>2</sup>
Main Business	Die Casting, Machining of HDD and Automotive Parts

◎ WANGNOI AYUTTHAYA



SHIN-EI HIGH TECH CO.,LTD. CUTTING TOOL&JIG DIVISION (WANGNOI - AYUTTHAYA PLANT)

2013	Established JAPAN PRECISION TOOLING (THAILAND) CO.,LTD.
2013	Started Manufacturing
Plant Areas	Land Space 12,644 m <sup>2</sup> (7.90 RAI) Total Floor Space 4,721 m <sup>2</sup>
Main Business	Tooling Design and Manufacture



## LAND AND FACILITY

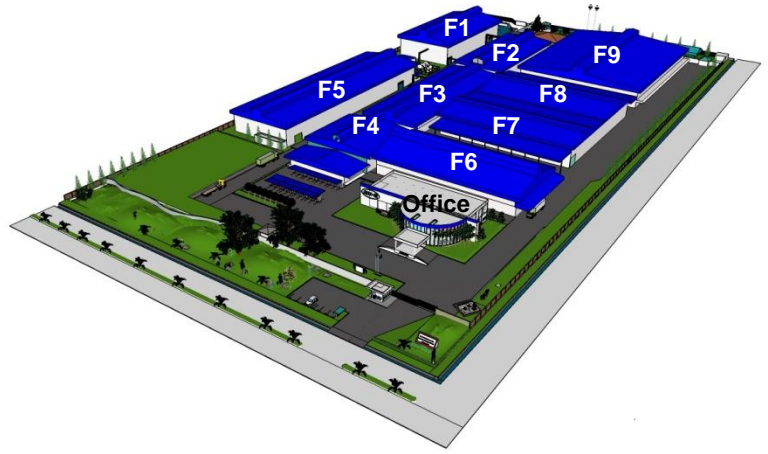
### SHIN-EI HIGH TECH CO.,LTD.

#### SURANAREE PLANT, NAKHONRATCHASIMA

Land Space 57,600 m<sup>2</sup> (36 RAI)

Facility Space 23,229 m<sup>2</sup>

OFFICE	700 m <sup>2</sup>
F1 MOLD MAKING	1,980 m <sup>2</sup>
MOLD MAINTENANCE	
F2 WAREHOUSE	1,500 m <sup>2</sup>
F3 MACHINING FACTORY	2,106 m <sup>2</sup>
F4 MACHINING FACTORY	1,350 m <sup>2</sup>
F5 GRAVITY CASTING	3,000 m <sup>2</sup>
F6 WAREHOUSE	2,020 m <sup>2</sup>
F7 MACHINING FACTORY	1,680 m <sup>2</sup>
F8 MACHINING FACTORY	2,016 m <sup>2</sup>
F9 DIECASTING FACTORY	4,752 m <sup>2</sup>
CANTEEN	625 m <sup>2</sup>



## LAND AND FACILITY

### SHIN-EI HIGH TECH CO.,LTD.

#### NAVANAKORN PLANT, NAKHONRATCHASIMA

Land Space 157,028 m<sup>2</sup> (98 RAI)

Factory Area 35,190 m<sup>2</sup>

OFFICE	1,718 m <sup>2</sup>
F1 WAREHOUSE	3,200 m <sup>2</sup>
F2 DIECASTING FACTORY	3,500 m <sup>2</sup>
F3 DIECASTING FACTORY	3,580 m <sup>2</sup>
F4 DIECASTING FACTORY	5,420 m <sup>2</sup>
F5 STORAGE FACTORY	3,200 m <sup>2</sup>
F6 MACHINING FACTORY	3,256 m <sup>2</sup>
F7 MACHINING FACTORY	3,256 m <sup>2</sup>
F8 MACHINING FACTORY	8,140 m <sup>2</sup>
NEW AREA	27,900 m <sup>2</sup>



## LAND AND FACILITY

### SHIN-EI PRECISION (THAILAND) CO.,LTD.

#### ROJANA PLANT, AYUTTHAYA

Land Space 33,403 m<sup>2</sup> (20 RAI)

Factory Area 10,460 m<sup>2</sup>

OFFICE	1,235 m <sup>2</sup>
F1 INSPECTION , LOGISTICS	2,400 m <sup>2</sup>
F2 ED-COAT & TUMBLING	2,660 m <sup>2</sup>
F3 SURFACE FACTORY	1,950 m <sup>2</sup>
F4 DIECASTING FACTORY	3,450 m <sup>2</sup>



## LAND AND FACILITY

### SHIN-EI HIGH TECH CO.,LTD. – CUTTING TOOL&JIG DIVISION

#### WANGNOI-AYUTTHAYA PLANT

Land Space 12,644 m<sup>2</sup> (7.90 RAI)

Factory Area 4,721 m<sup>2</sup>

OFFICE	396 m <sup>2</sup>
F1 WAREHOUSE	1,800 m <sup>2</sup>
F2 TOOLING FACTORY	1,926 m <sup>2</sup>
OTHERS	599 m <sup>2</sup>

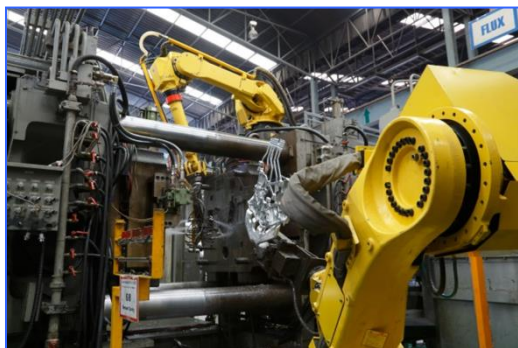


# DIECAST CAPABILITIES ~Fully Automated System For High Quality Product ~



Factory 2, Die Cast Machine of SHIN-EI HIGH TECH CO.,LTD. THAILAND.

## Specification of Aluminium Ingot : ADC-12 , ADC-3,ADC-14 ,NH-41



### VERSATILE INTELLIGENT ROBOT SYSTEM

Extreme Speed & Accurate Spray Area Supportive Stable Production and Quality  
( 350 t Die Cast Machine with FANUC Robot LR Mate 100iB )

**SHIN-EI HIGH TECH CO.,LTD.**  
SURANAREE INDUSTRIAL ZONE  
350 t                      16 units

**Subtotal                      16 units**

**SHIN-EI HIGH TECH CO.,LTD.**  
NAVANAKORN INDUSTRIAL ZONE

350 t                      17 units  
650 t                      1 unit  
670 t                      1 unit  
800 t                      1 units  
850 t                      17 units  
1100 t                      9 units  
1250 t                      2 units  
1650 t                      2 units  
Nano Casting 350 t                      1 unit

**Sub total                      51 units**

**SHIN-EI PRECISION (THAILAND) CO.,LTD.**  
ROJANA AYUTTHAYA PLANT  
350 t                      14 units

**Sub total                      14 units**

Funac Robot                      91 units

**TOTAL                      81 units**

## GRAVITY CASTING

## ~ High Quality and Capable Automated System ~



### SHIN-EI HIGH TECH GROUP

Mold Casting Machine	20 Units
Crucible Furnace	24 Units
Shell Moulding Machine	19 Units
De-Gassing Apparatus	3 Units
Coagulation Tester	1 Units
Band Sawing Machine	12 Units
Belt Sander Machine	12 Units
T6 Treatment Furnace	4 Units
T5 Treatment Furnace	1 Unit
Fanuc Robot	4 Units

**Specification of Aluminum Ingot : AC2A , AC4A, AC4B, AC4C, AC4CH, EN AC42100, EN AC42200, EN AC43000, EN AC46200, EN AC46400, LM25**

**~Integrated Mold Design and Diecasting ~**

**DIE MAKING & DIE MAINTENANCE**



**SHIN-EI HIGH TECH CO.,LTD.**

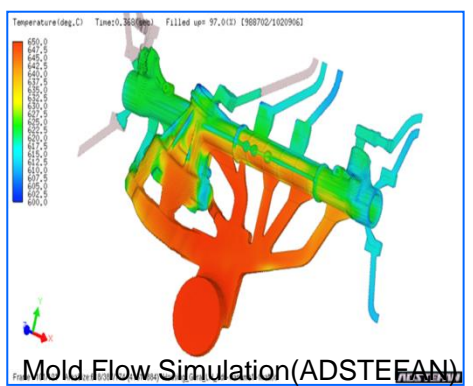
NC WIRE CUT MACHINE	5 units
NC LATHE MACHINE	4 units
LATHE MACHINE (MAZAK)	1 unit
NC MILLING	3 units
MILLING MACHINE	4 units
ELECTRICAL DISCHARGE MACHINE	8 units
CMM	1 unit
MACHINING CENTER	14 units
HORIZONTAL (MITSUBISHI)	1 unit
DOUBLE COLUMN TYPE (MITUBISHI)	1 unit
CAD/CAM (CIMATRON)	15 units
GRINDING MACHINE	3 units
RADIAL BALLING	1 unit
MOLD FLOW ANALYZER	1 unit
LASER BEAM WELDING	1 unit
DIE SPOT	2 units



Machining Center



Machining Center



**~Visualize Control and Optimized Process Flow ~**

**MACHINING CAPABILITIES**



**MACHINING LINE**

**SHIN-EI HIGH TECH CO.,LTD.**

**Suranaree Plant - Nakhonratchasima**

NC LATHE MACHINE	113 units
MACHINING CENTER	141 units
<b>Sub-total</b>	<b>254 units</b>

**SHIN-EI HIGH TECH CO.,LTD.**

**Navanakorn Plant - Nakhonratchasima**

NC LATHE MACHINE	66 units
MACHINING CENTER	460 units
<b>Sub-total</b>	<b>526 units</b>

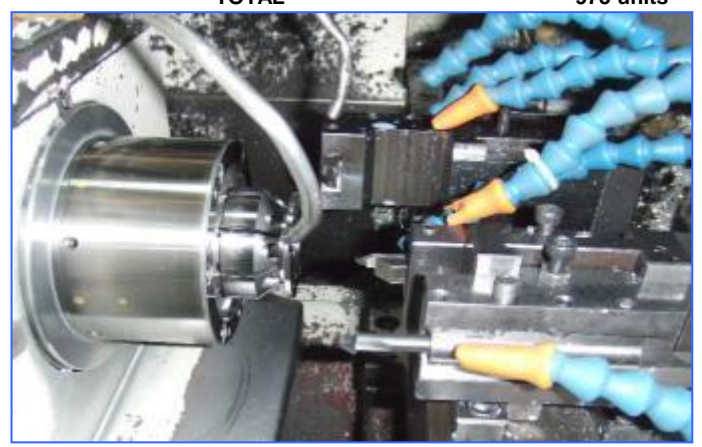
**SHIN-EI PRECISION (THAILAND) CO.,LTD.**

**Rojana Plant - Ayutthaya**

NC LATHE MACHINE	152 units
MACHINING CENTER	43 units
<b>Sub-total</b>	<b>195 units</b>

**Funuc Robot 138 units**

**TOTAL 975 units**



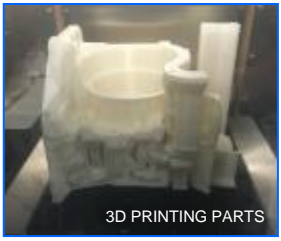
# TOOLING DESIGN AND MANUFACTURE ~ Pursuit For The Best Tooling Design ~



## SHIN-EI HIGH TECH CO., LTD. - TOOL DIVISION

UNIVERSAL TOOL GRINDING	3 Units
MACHINING CENTER	4 Units
MILLING MACHINE	1 Unit
LATHE MACHINE	3 Units
TOOL MICROSCOPE	3 Units
TOOL DYNAMIC BALANCE MACHINE	1 Unit
3D CAD (Solid works)	18Units
CAM MC (Solid works)	1 Unit
CAM NC (Solid works)	1 Unit
SIMULATION SYSTEM (SOLID WORKS)	1 Unit
CNC GRINDING MACHINE - CARBIDE (WALTER)	1 Unit
CNC GRINDING MACHINE - DIAMOND (WALTER)	1 Unit
CNC WIRECUT MACHINE (FANUC)	1 Unit
CNC WIRECUT MACHINE (VOLLMER)	3 Units
CYLINDRICAL GRINDER MACHINE	4 Units
3D PRINTER (250x250x250) (STARTASYS)	2 Unit
3D MEASURING INSTRUMENT	1 Unit

### DESIGN JIG AND TOOL



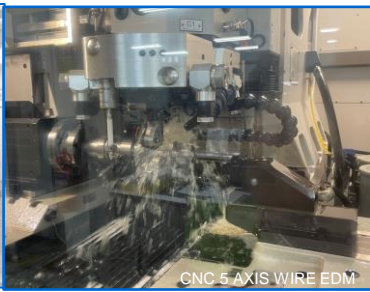
3D PRINTING PARTS



3D PRINTING MACHINE



CNC GRINDING MACHINE



CNC 5-AXIS WIRE EDM



INCLUDE DAMPING  
DIAMOND TOOL  
BT-30 SOLID INSERT HOLDER  
DIAMOND CUTTER  
CARBIDE TOOL

## INTRODUCTION OF SHIN-EI'S NEW SERVICE FOR EV CAR



### New aluminum Ingot Low Cu (ADC3)

EV product adoption



Case Chassis



Cover



Case Main Housing

Start adoption in 2023

### Friction stir welding (FSW) Technology

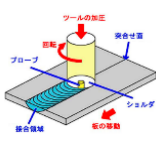
#### Introduction of Friction Stir Welding (FSW)

Abbreviation for Friction Stir Welding, which is generated by frictional heat and rotational force generated when a high-speed rotating tool is pressed against a metal material. It is a technology that joins by plastic flow. It is attracting attention as a welding method that enables joining of dissimilar metals.

It has become an indispensable technology for EV vehicles, where there is a strong need to reduce the weight of the vehicle body.



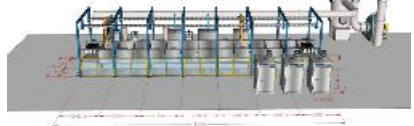
Start adoption in 2023



### In-house surface treatment Chromate coating SurTec 650

SurTec 650 -Tri-Chrome Passivation of Aluminum

#### SHIN-EI Factory Layout



Start adoption in 2023





Compressor Part, Shrinkage Fitting



Engine Part, Pin and Oil Gauge



Engine Part, Ball Insert

## QUALITY ASSURANCE



COORDINATE MEASURING MACHINE

### ANALYSIS MACHINE

HARDNESS TESTING MACHINE	5 UNITS
AMSLER UNIVERSAL TESTING INSTRUMENT	2 UNITS
PROFILE PROJECTOR	1 UNITS
X-RAY	1 UNITS
CT SCANNER (TOSHIBA & YXLON & NIKON)	4 UNITS
3D SCANNER	3 UNITS
SPECTROMETER	3 UNITS
TMA	1 UNITS
QUICK VISION MACHINE (QV)	1 UNITS
MICROSCOPE FOR PHASE ANALYZER	2 UNITS
BURST TEST MACHINE	1 UNITS
UNIVERSAL LENGTH MEASURING MACHINE (ULM)	1 UNITS

### MEASUREMENT MACHINE

CMM MACHINE (MITSUTOYO)	27 UNITS
CMM MACHINE (CARL ZEISS)	3 UNITS
HANDY CMM	3 UNITS
CONTRACER & ROUGHNESS	4 UNITS
ROUNDNESS TESTER	6 UNITS
SURFACE TESTER	9 UNITS
MICROSCOPE	4 UNITS
CONTOUR	4 UNITS
AIR MICROMETER	151 UNITS
BURST TEST MACHINE	1 UNITS



X-RAY



3D Image Scanner measurement

**AUTOMOTIVE 650T - 1,650T DIECAST PARTS**



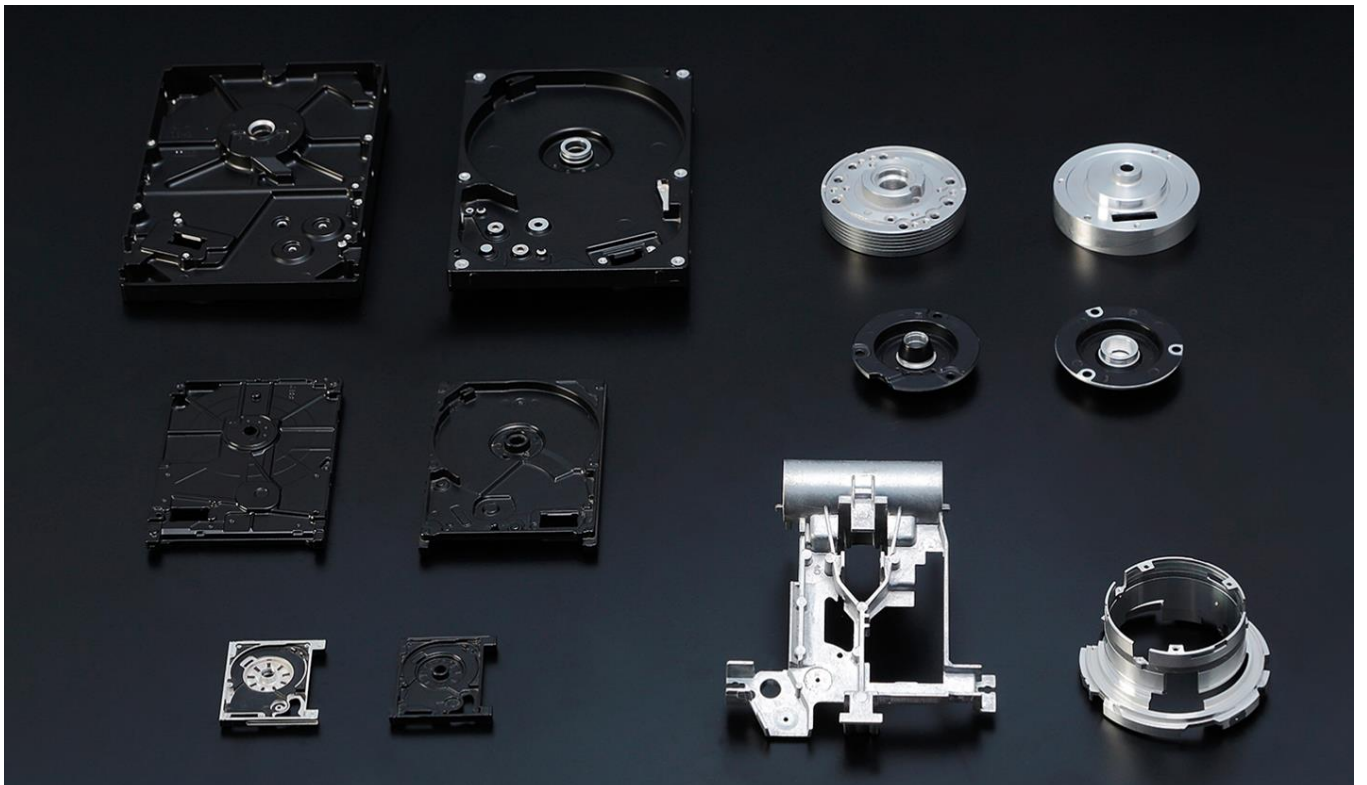
**AUTOMOTIVE 350T DIECAST PARTS**



AUTOMOTIVE GRAVITY PARTS



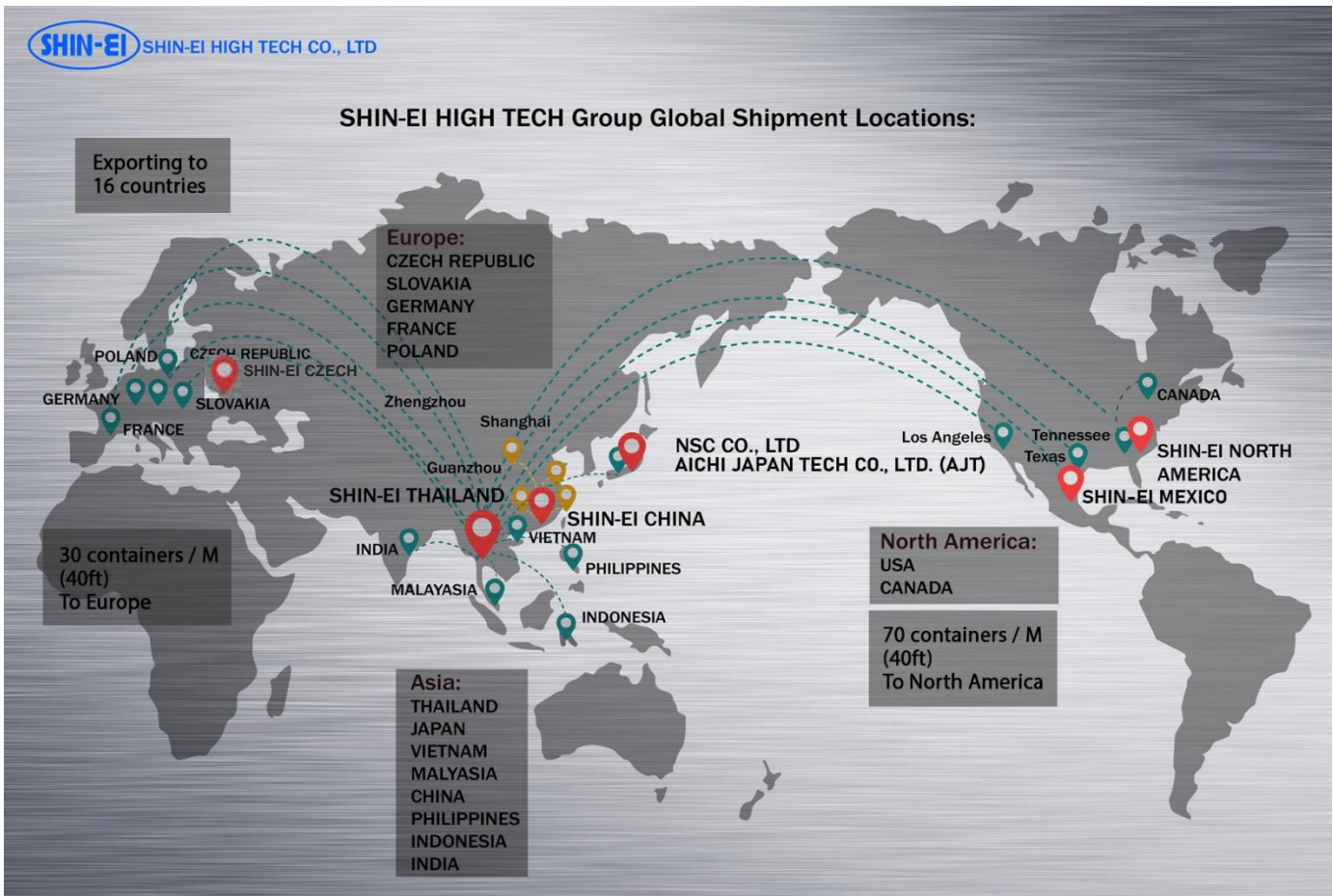
HDD PARTS



DIAMOND and CARBIDE TOOL



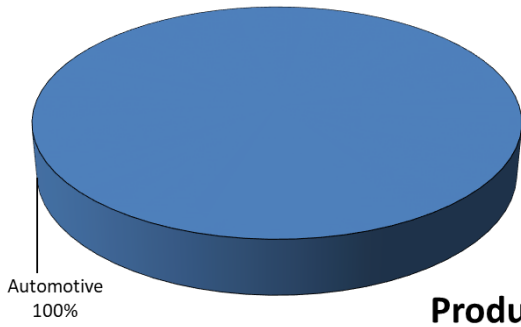
SHIN-EI GLOBAL DELIVERY



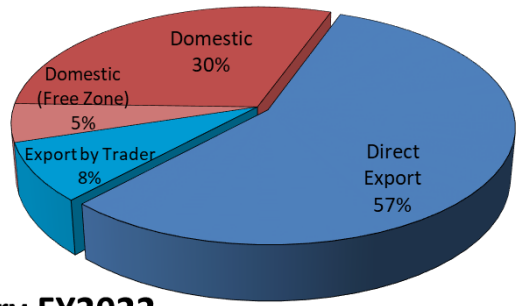
# SALES PRODUCT RATIO

## SALES PRODUCT RATIO FY2022

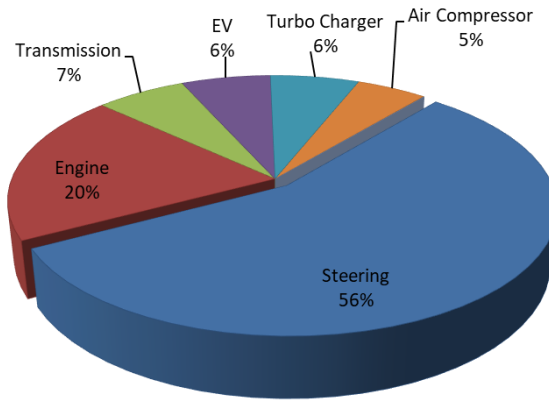
### Product Ratio



### Export



### Product Category FY2022

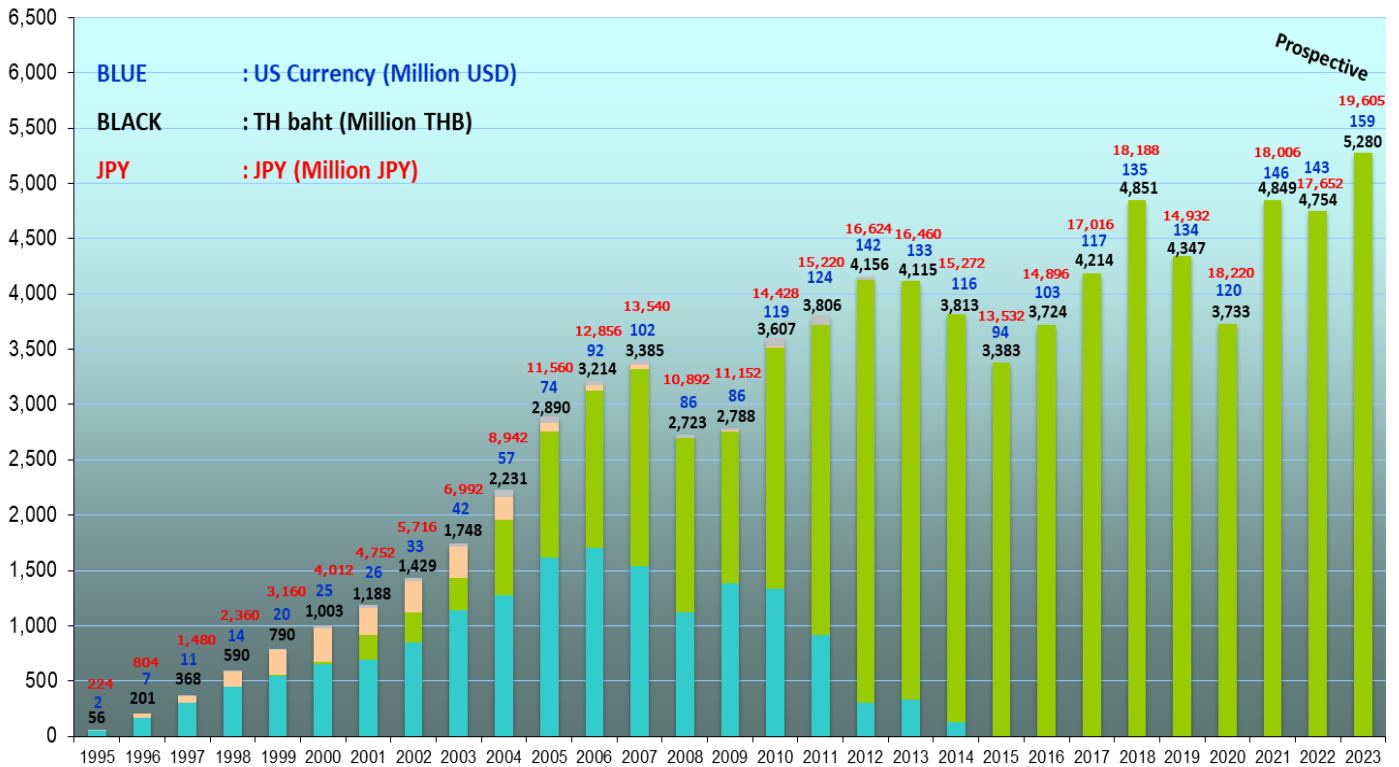


## SALES COMPOSITION

SHIN-EI HIGH TECH CO.,LTD. , SHIN-EI PRECISION (THAILAND) CO.,LTD.

Unit : MILLION BAHT

■ HDD ■ AUTO ■ VTR ■ OTHER



YEARS

# SHIN-EI GROUP TOTALITY

CAPABILITIES	JAPAN		CHINA	THAILAND				TOTAL
	NSC	NSC OKAYAMA FACTORY	DONGGUAN XIN RONG FACTORY	SHIN-EI (SURANAREE)	SHIN-EI (NAVANAKORN)	SHIN-EI TOOL DIVISION (WANGNOI)	SHIN-EI PRECISION (ROJANA)	
<b>DIE-CASTING</b> 125t			1					
250t		1	1					
350t		6	8	16	17		14	
350t HVSC								
375t								
530t		1						
650t		3	2		1			
670t					1			
800t		6	6		1			
850t					17			
1,100t					7			
1,250t					2			
1,650t					2			
Nano Casting 350t					1			
<b>DIECAST CAPABILITY TOTAL</b>		<b>17</b>	<b>18</b>	<b>16</b>	<b>49</b>		<b>14</b>	<b>114 units</b>
<b>MACHINING</b> MC	8	42	91	168	318	5	44	
NC	1	16	105	96	70	1	148	
OTHER		29	31			9		
<b>MACHINING CAPABILITY TOTAL</b>	<b>9</b>	<b>87</b>	<b>200</b>	<b>264</b>	<b>388</b>	<b>15</b>	<b>192</b>	<b>1,155 units</b>
<b>ALUMINUM USAGE (t/month)</b>		400	400	120	1,000		100	<b>2,020</b>
<b>MAN POWER</b>	90	215	630	771	1602	44	706	<b>4058</b>

## NAKHONRATCHASIMA (KORAT) MAP



# MAIN CUSTOMERS

(Alphabetical order)

## ELECTRONIC SECTOR

NIDEC ELECTRONICS (THAILAND) CO.,LTD.

NIDEC CORPORATION LTD. (JAPAN)

## AUTOMOTIVE SECTOR

AISIN ASIA PACIFIC CO.,LTD. (AIAP)

AISIN ELECTRONICS, INC. (USA)

AISIN POWERTRAIN (THAILAND) CO.,LTD. (AIPT)

BANDO MANUFACTURING (THAILAND) CO.,LTD.

BORGWARNER TURBO SYSTEMS.

BOSCH AUTOMOTIVE (THAILAND) CO.,LTD.

CALSONIC KANSEI (THAILAND) CO.,LTD.

CALSONIC KANSEI UTSUNOMIYACORP. (JAPAN)

CONTINENTAL AUTOMOTIVE (THAILAND) CO.,LTD.

CONTINENTAL AUTOMOTIVE (CZECH REPUBLIC) CO., LTD.

DELTA ELECTRONICS (THAILAND) PCL.

DENSO MANUFACTURING VIETNAM CO., LTD.

HANON SYSTEMS (THAILAND) CO., LTD.

HITACHI ASTEMO AMERICAS INC.

HITACHI ASTEMO ASIA LTD.

HITACHI ASTEMO CHONBURI AUTO PARTS LTD.

HITACHI ASTEMO LTD. (JAPAN)

IHI CORPORATION (JAPAN)

IHI TURBO CO., LTD. (JAPAN)

IHI TURBO (THAILAND) CO.,LTD.

JATCO (THAILAND) CO.,LTD.

JTEKT ASIA PACIFIC CO., LTD. (JTAP)

JTEKT AUTOMOTIVA BRASIL Ltda.

JTEKT AUTOMOTIVE (MALAYSIA) SDN. BDH.

JTEKT AUTOMOTIVE MEXICO S.A.DE C.V.

JTEKT AUTOMOTIVE TENNESSEE - VONORE, CO. (USA)

## AUTOMOTIVE SECTOR (OEM)

HONDA AUTOMOBILE (THAILAND) CO., LTD.

MITSUBISHI MOTORS (THAILAND) CO.,LTD

NISSAN MOTOR (THAILAND) CO.,LTD.

SIAM TOYOTA MANUFACTURING CO.,LTD.

THAI HONDA MANUFACTURING CO., LTD.

THAI SUZUKI MOTOR CO.,LTD.

JTEKT COLUMN SYSTEMS CZECH S.R.O

JTEKT COLUMN SYSTEMS NORTH AMERICA CORPORATION

JTEKT COLUMN SYSTEMS (THAILAND) CO., LTD.

JTEKT (THAILAND) CO.,LTD.

KAYAMA ENGINEERING CO., LTD.

MHI AUTOMOTIVE CLIMATE CONTROL (THAILAND) CO., LTD.

MITSUBISHI ELECTRIC AUTOMATION (THAILAND) CO.,LTD.

MITSUBISHI ELECTRIC THAI AUTO-PARTS CO.,LTD.

MITSUBISHI TURBOCHARGER ASIA CO., LTD.

NIDEC TOSOK (VIETNAM) CO.,LTD.

ROBERT BOSCH AUTOMOTIVE STEERING SDN. BHD

SANDEN INTERNATIONAL (U.S.A) INC.

SIAM AISIN CO., LTD.

TAIHO (THAILAND) CO.,LTD.

TDK (MALAYSIA) SDN BHD (POWER SYSTEMS)

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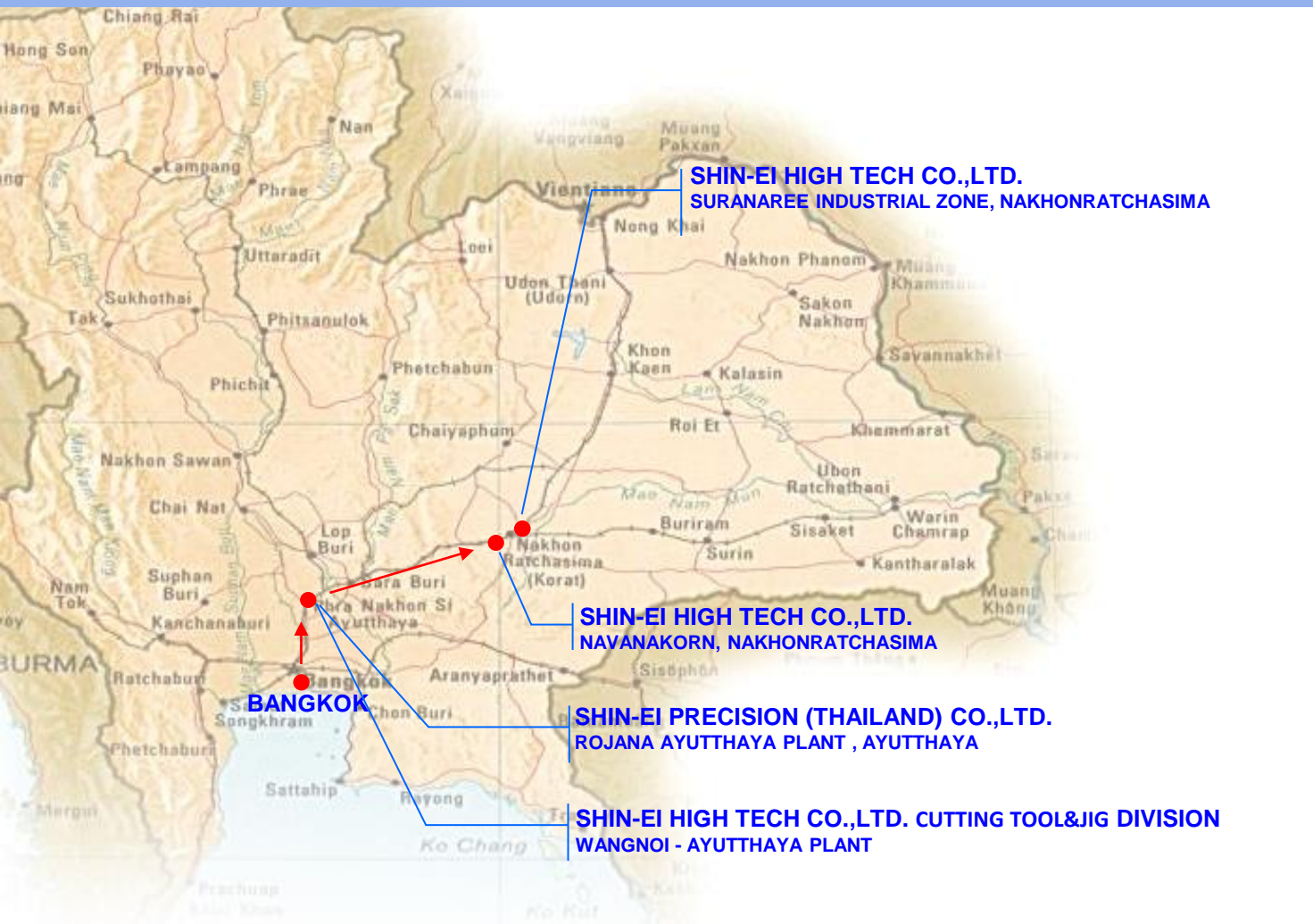
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