

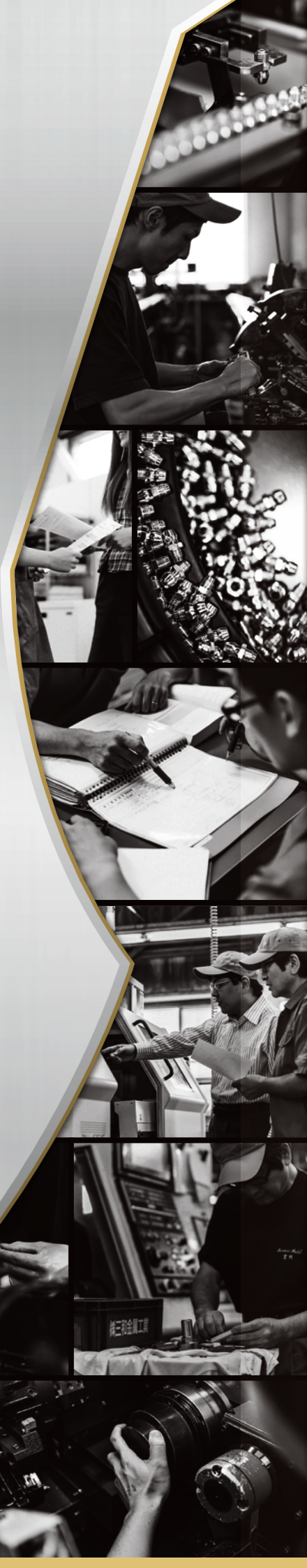


**SANWA METAL INDUSTRY**

Head Office 3-2-40 Miyakehigashi, Matsubara City,  
Osaka, 580-0041, Japan  
TEL +81-72-332-3377 FAX +81-72-333-6911



**SANWA METAL INDUSTRY**  
*Corporate Profile*





# Maximizing our human resources, Fully realizing each product's potential, We strive to build social value.

To meet the needs of the global community, how must we act? What must we do?

At SANWA METAL INDUSTRY, our answer is to be a team that maximizes the potential within each member and continually pursues the craftsmanship our customers desire.

With this belief firmly in mind, we are committed to challenge ourselves both now and from this point forward.

## HISTORY

Aug 1945	Sakae Kitayama began producing parts for motors and shipping vessels in Bessho-cho, Matsubara City
Dec 1947	Sakae Kitayama established Sanwa Metal Industry L.C. (Capital ¥180,000)
Sep 1949	Began production of grease nipples
Dec 1959	Established the current main factory (approx. 3,000m <sup>2</sup> ) at 3-2-40 Miyakehigashi, Matsubara City
Mar 1965	Increased capital to ¥5,180,000
Feb 1971	Increased capital to ¥10,000,000
Mar	Ryoichi Kitayama took over the position of representative director
Dec	Moved the head office to its current location at 3-2-40 Miyakehigashi, Matsubara City
Oct 1972	Began production of brake-lining rivets
Feb 1975	Established the current second factory (approx. 1,800m <sup>2</sup> ) at 6-1-5 Bessho, Matsubara City
Sep	Increased capital to ¥20,000,000
Jun 1982	Expanded the site area for the main factory and erected D Building
Jun 1986	Reconstructed A and B Buildings of the main factory
Sep	Introduced CNC lathes
Dec 1990	Established the current third factory at 6-4-1 Hitotsuya, Matsubara City
Mar 1996	Reorganized as Sanwa Metal Industry Co., Ltd.
Jul 2000	Yoshimori Kitayama took over the position of representative director
May 2004	Reconstructed C Building of the main factory
Dec	Acquired ISO9001:2000 certification
Nov 2011	Established the Thai subsidiary SANWA METAL (THAILAND) CO., LTD.
Oct 2012	SANWA METAL (THAILAND) CO., LTD. erected its factory (approx. 7,000m <sup>2</sup> ) at Thailand's 304 Industrial Park and began operations
Nov 2016	Introduced CNC machining center



# SK Grease Nipples

## Our Achievements as a Grease Nipple Manufacturer

- The largest production capacity and product lineup in Japan and the No.1 share in the domestic market.
- The ability to introduce and deliver grease nipples according to the customers' needs.

### Portfolio of materials

Iron: SUM24L, S45CF  
 Stainless steel: SUS303, SUS304, SUS316  
 Aluminum: A2011  
 Brass: C3604

\*It is possible to use an equivalent substitute for each of the above materials.  
 \*The above are subject to Japanese Industrial Standards.



# Custom-made Products

## We can meet all of our customers' needs

- From both trial and commercial manufacture to the production of a wide range of lot sizes, we are ready to answer whatever requests our customers may have.
- Whether it be cutting, surface treatment, standard assembly or various other procedures, we offer comprehensive processing and production.

### Portfolio of materials

Iron: SUM24L, S45C, SS400, SCM435, SUJ-2  
 Stainless steel: SUS303, SUS304, SUS316, SUS403  
 Aluminum: A2017, A5052, A6063  
 Brass: C3604, C3771, Lead-free

\*It is possible to use an equivalent substitute for each of the above materials.  
 \*The above are subject to Japanese Industrial Standards.



### Grease Nipples Line up

<b>Straight angled Type</b> 	<b>67°angled Type</b> 	<b>90°angled Type</b> 	<b>Button-head Type</b> 	<b>Pin Type</b> 	<b>Protection Cap for Pin Type</b> 
<b>Protection Cap for Grease Nipple</b> 	<b>High-pressure-resistant Type</b> 	<b>Drive-in Type</b> 	<b>Flush Type</b> 	<b>Other Special Types</b> 	<b>Relief Nipple</b> 
<b>Air Breather</b> 	<b>Auto Greastar Fitting</b> 	<b>Grease Nipple Adapter</b> 	<b>Grease Hose</b> 	<b>Others</b> We are capable of handling requests for a variety of sizes, shapes, screw specifications and surface treatments.	

### Work Progress Ex.



### Processing Ex.

<b>Machining</b> Material: SUS316 	<b>Machining</b> Material: SUS316 	<b>Machining</b> Material: SUS304 	<b>Compound NC Lathe Processing</b> Material: C3604 	<b>Sliding Headstock NC Lathe Processing</b> Material: C3604 	<b>Valve Stem Forging</b> Material: SUS403 
<b>Wire-cut Machining</b> Material: SUS304 	<b>Buff Mirror Finishing</b> Material: SUS304 	<b>Hard Chromium Plating</b> Material: SUS403 	<b>Thermal Refining Treatment Shot</b> Material: S45C 	<b>SD Collet Holder</b> Material: SCM435 	<b>Miniature Valve</b> Material: C:3604, C3771 



Network of 5 Internal Departments  
**Team SANWA Network**



- Our independent departments continually work to achieve the 5 functions (sales, engineering, production, quality assurance, and general management) required of successful manufacturers.
- Through the mutual cooperation of each department, Team Sanwa is able to use its combined, overall strength to meet the needs of its customers.

**Global Network**

- Utilizing our Thai subsidiary, we are able to satisfy customer demand for local procurement.
- With an in-house system for international trade, we have dealt directly with our Southeast Asian customers over the past 20 years.



**Technical Network**

- Employing the technical skill of our machinists and the latest equipment and facilities, we are able to realize a level of processing one rank above the rest.
- By linking up with the various contract manufacturers we have cultivated over the years, we are able to respond comprehensively to a variety of processing styles (Lathe turning, milling, Peterman lathe processing, thermal/surface treatment etc.).



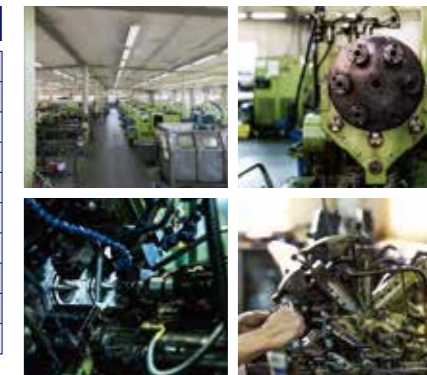
Corporate Profile

Company Name	Sanwa Metal Industry Co., Ltd.		
Address	<b>Head Office</b> 3-2-40 Miyakehigashi, Matsubara City, Osaka, 580-0041, Japan	TEL +81-72-332-3377	FAX +81-72-333-6911
	<b>2nd Factory</b> 6-1-5 Bessho, Matsubara City, Osaka, 580-0005, Japan	<b>3rd Factory</b> 6-4-1 Hitotsuya, Matsubara City, Osaka, 580-0003, Japan	
	<b>Thai Subsidiary</b> SANWA METAL (THAILAND) CO., LTD. 304IP NO.553 M007, THATOOM, SRIMAHAPHOT, PRACHINBURI THAILAND, 25140		
Founded	August 15, 1945		
Established	<b>Head Office</b> December 27, 1947	<b>Thai Subsidiary</b> November 9, 2011	
Capital	<b>Head Office</b> ¥20,000,000	<b>Thai Subsidiary</b> 25,000,000 THB	
Annual Sales	¥2,240,000,000 (Stand-alone Sales for 2019)		
Number of Employees	<b>Head Office</b> 79	<b>Thai Subsidiary</b> 43	(as of September 2019)
Scope of Business	The sale and production of grease nipples, hydraulic/lubricant/pneumatic piping connectors, hub bolts and nuts, automobile/specialized vehicle parts, construction machinery parts, machine tool parts, shipping vessel parts, and medical equipment parts		

List of Equipment

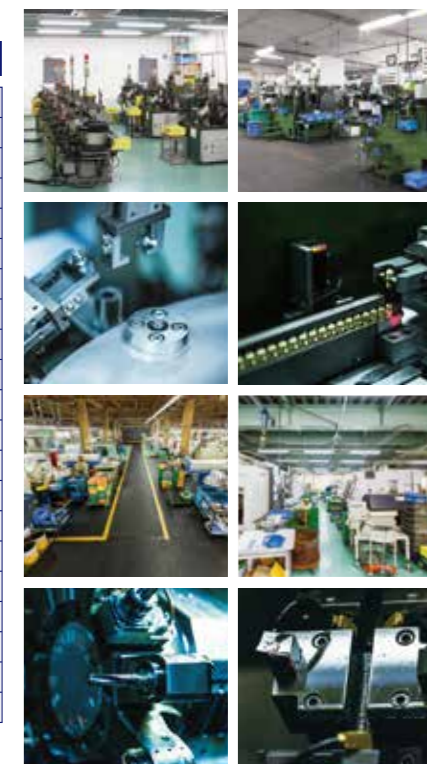
Grease Nipple Production Equipment

Cam automatic lathes	Multi-spindle automatic lathe	29 units
	Single spindle automatic lathe	36 units
Dedicated grease nipple processing equipment	Dedicated automatic hole machining equipment	20 units
	Dedicated automatic hole tapping equipment	9 units
	Dedicated automatic assembly equipment	12 units
	Automatic fastening machine	3 units
	Automatic inspection machine	3 units
Thread rolling machine	2, 3-die thread rolling machine	7 units
	High-speed rotary rolling machine	2 units
Cold heading machines	Parts former	1 unit



Custom-made Production and Manufacturing Equipment

CNC automatic lathes	Miyano Machinery	BNJ-42SY	3 units
		BND-42S	2 units
		BND-34S	2 units
		BND-34T	3 units
	Okuma	BND-34C	2 units
		LCS250	1 unit
		GENOS L250	1 unit
	Hitachi Seiki	LB3000EX	1 unit
NR-20		1 unit	
Nakamura-Tome	TMC-20	2 units	
	Miyano Machinery	LE-01	1 unit
LZ-01		4 units	
Okuma		LCC-15	1 unit
		LCS250	2 units
CNC lathes	Okuma	GENOS L250	2 units
		Nakamura-Tome	TMC-15
	DMG Mori Seiki	NL-1500Y	1 unit
		Takamatsu Machinery	X-10
EX-15	1 unit		
XL-100	1 unit		
Yamazaki Mazak	NEXUS 200-2 MY	2 units	



Inspection equipment

Surface roughness/contour shape measuring apparatus	Tokyo Seimitsu	1900DX3-12	1 unit
Measurement microscope	Mitutoyo	MF-1020TH	1 unit
Projector	Mitutoyo	PJ-H30	1 unit
Image size measuring apparatus	Keyence	IM-6120	1 unit

