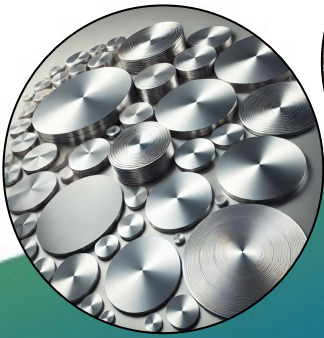




NANSEN INDUSTRY





NANSEN INDUSTRY CO., LTD

Nansen Company is a dedicated manufacturer specializing in the production of high-quality aluminum slugs. With a solid presence in the global marketplace, we have grown from a manufacturing leader in the aluminum slug industry into a multifunctional enterprise that spans processing, manufacturing, international business, distribution, and logistics.

- Our Commitment

We are proud to support the progress of China's non-ferrous industry while maintaining a strong reputation globally for our high-quality standards. Our dedication to serving and advancing the non-ferrous sector in China and beyond enables us to promote global market growth and development.

- Vision and Mission

We are committed to meeting the needs of our clients and maintaining our position as one of the world's best suppliers of non-ferrous metals. Our focus is on achieving sustainable growth by enhancing our production capacity, adopting advanced technologies, and providing exceptional customer service.

- Core Values

Effectiveness and Economy: Clients are our primary focus.

Commitment to Quality: Our workers are the driving force behind our excellence.

Competitive Pricing: Our pricing reflects our pride in delivering value.

- Diverse Business Models

We offer flexible trade terms to meet the unique needs of our partners, including:

- Agency agreements

- OEM partnerships

Assembling or processing with supplied materials

- Custom designs

This is why many renowned manufacturers of non-ferrous components trust Nansen for their metal product needs. We are confident in our ability to exceed expectations and would be delighted to demonstrate our productivity and reliability to you!



Aluminum Slugs – 1070, O Temper

High-Quality Aluminum Slugs for Global Customers

With a long-standing tradition of excellence, we provide **1070 O temper aluminum slugs** to global customers. Made from high-purity 1070 aluminum, these precision raw materials are widely used across industries, including:

- Automotive technical components
- Aerosol cans
- Aluminum tubes

Our Top Priorities

- Highest product quality
- Flexibility
- Absolute reliability in meeting deadlines

Innovation in impact extrusion begins with the slug. Our focus on advanced alloys and the increased use of secondary aluminum ensures a sustainable, forward-looking approach to production.

Key Features of Aluminum Slugs

- **High-Purity Material:** Made from 1070 high-purity aluminum (99.7% or higher), ensuring excellent processability and stable performance.
- **Lightweight & Strong:** With a density of 2.7 g/cm³, aluminum is lightweight but offers sufficient strength for deep drawing and extrusion.
- **Excellent Ductility:** Outstanding plasticity makes aluminum slugs ideal for deep drawing, extrusion, and stretching without breaking or deforming.
- **High Surface Finish:** Smooth, flawless surfaces ideal for high-precision manufacturing.
- **Superior Corrosion Resistance:** The natural oxide layer provides excellent resistance to oxidation and corrosion.
- **Thermal & Electrical Conductivity:** Excellent for heat sinks, thermal components, and electronics.
- **Strong Recyclability:** Fully recyclable and environmentally friendly.
- **Precision Dimensions:** Advanced molds ensure consistent thickness and diameter, meeting high industrial standards.

Wide Range of Applications:

Aluminum slugs are used in automotive components, aerosol cans, aluminum tubes, cosmetic packaging, and electrical components.





Production Technology Overview

Our manufacturing process integrates advanced techniques to ensure precision and high quality.

- **Productive Capacity:** 1,200 tons per month

Process Steps:

1. Melting and Alloying:

We use premium primary aluminum and internal materials from our production to achieve the desired alloy composition.

2. Hot-Rolled Coils:

These coils serve as the input material for our slug manufacturing process.

3. Cold Rolling:

Advanced mills and laser measurement systems are employed to ensure precise strip thickness.

4. Automated Stamping:

Thick slugs are punched at high rates for efficiency.

5. Annealing:

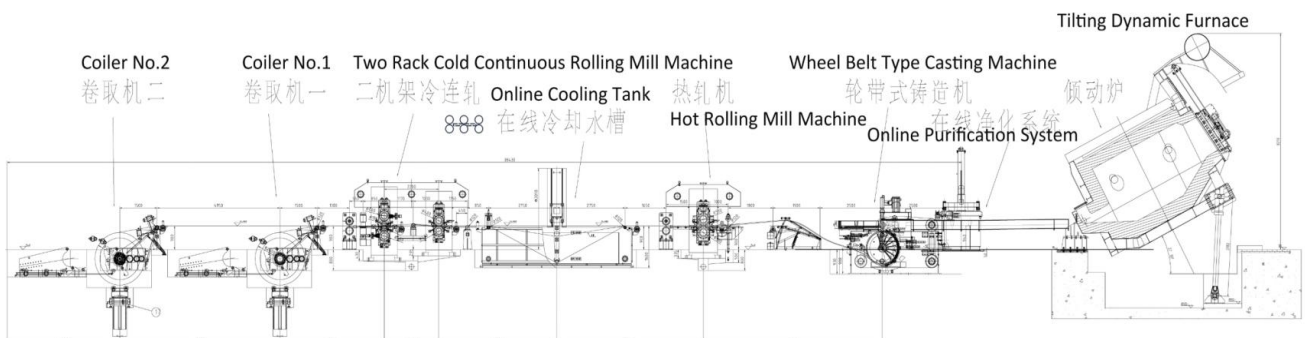
The slugs are annealed to achieve optimal hardness and mechanical properties.

6. Surface Finishing:

Depending on customer requirements, slugs undergo shot blasting or vibrating to achieve uniform, high-quality surfaces.

7. Packaging:

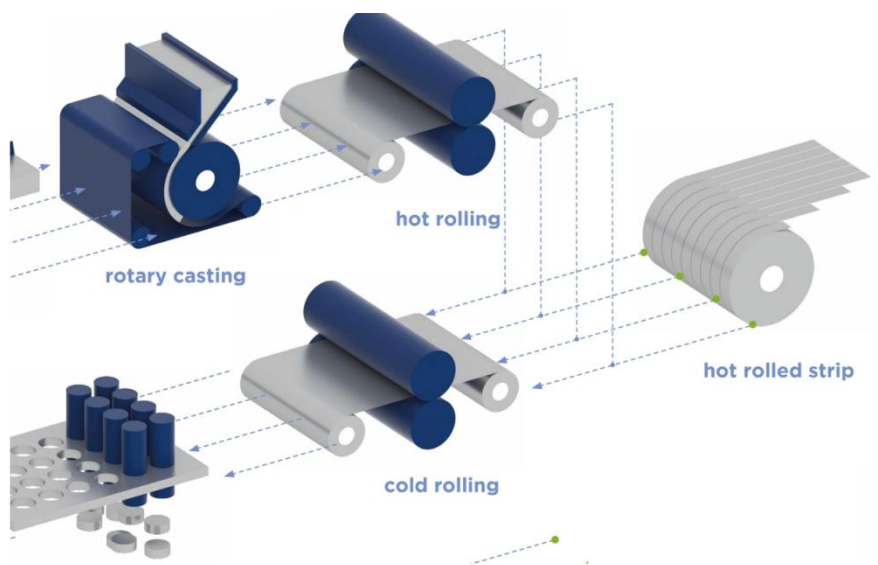
Finished slugs are securely packaged in 25 kg cartons, with 45 cartons per pallet.



Material Series	Chemical composition	Features and applications
1070/1050/1060/1100	High purity aluminum	It has good ductility and corrosion resistance, making it suitable for cookware, lighting, and decorative pieces.
3003	Aluminum-manganese alloy	It has higher strength and better corrosion resistance than pure aluminum, making it suitable for food containers and pressure cookers

Aluminum slug size range: Diameter : 4-136mm , thickness 2-18mm.

1	Alloy 1070(A)									
2	Chemical Composition									
	Al	Si	Fe	Cu	Zn	Ti	Mn	Mg	Cr	Others Each
	99.7	0.10	0.20	0.03	0.03	0.03	0.03	0.03	0.03	0.03
	%min	%max	%max	%max	%max	%max	%max	%max	%max	%max
3	Slug Hardness: Well Annealed, Max: 21.0 HB (measured before vibration)									
4	Packing: Currently in 25.0 kg cardboard boxes. Pallet weight: 1000 to 1125 kg. Treated wood pallet.									
5	End Use: Impact-extrusion Tube, Aerosol Can, Aluminum Bottle, Cosmetic Tube, Collapsible Tube									





Applications:

Our aluminum slugs are widely used in:

Packaging Industry: aerosol spray cans, collapsible tubes, cosmetic containers, aluminum bottles.

Food Containers: aluminum food trays, beverage cans, food packaging containers.

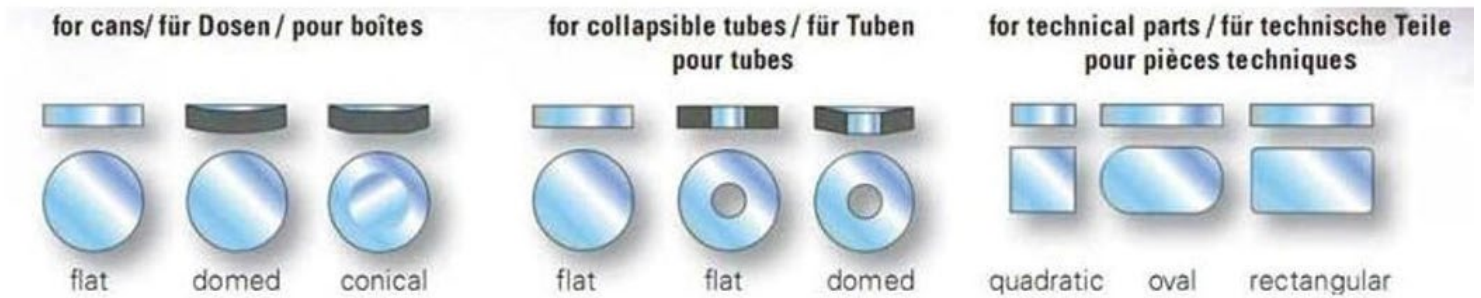
Automotive Industry: car parts, battery housings, fuel tanks.

Industrial Parts: heat sinks, electronic housings, extruded components.

Household Goods: kitchenware, storage containers, aluminum covers.



Shape: flat,domed,round,oval,column,conical,rectangular,concave



Recommended Slug Sizes:

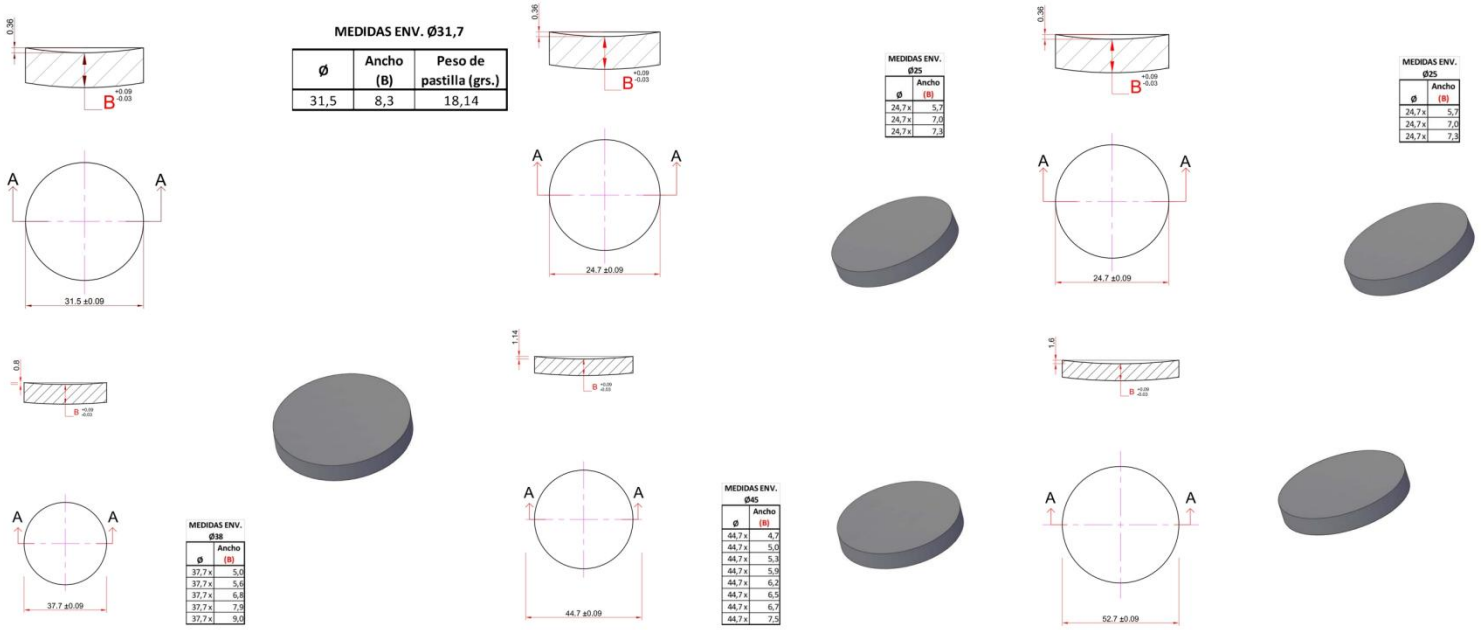
For collapsible tubes/ aerosol cans:

Aluminum slug size(MM)
17.2*3.8
17.2*4.4
18.8*4.4
18.8*4.6
21.7*4.5
21.7*5.0
26.2*4.4
26.2*4.9
31.7*4.7
34.7*4.6



These sizes are optimized for impact extrusion and provide excellent performance for producing high-quality aerosol cans.

Diameter	Thickness	weight (g)	Measures	Type
31.5	8.3		31.7	FLAT
24.7	5.7/7.0/7.3		25	CONCAVE
34.7	4.5/4.8/5.2/6.2/6.8/6.5			CONCAVE
37.7	5.0/5.6/6.8/7.9/9.0			CONCAVE
44.7	4.7/5.0/5.3/5.9/6.2/6.5/6.7/7.5			CONCAVE
49.7	5.5/6.2/6.5/6.8/7.1/80			FLAT
52.7	4.6/4.9/5.3/5.8/6.3/6.5/6.9/7.0/7.1/7.5/7.7			CONCAVE
58.7				CONCAVE
37.7	7.0MM*Center hole diamater:5.7			FLAT



- Diameter : 52.20 mm , 54.7 mm, 55.8 mm, 58.7 , 59.7 mm, 61mm, 63 mm, 66mm, 70.8mm ,72mm 77mm, 78 mm,84mm, 89 mm, 95mm, 97 mm.. more punching size for available
- 105mm, 111mm, more oval size ,with center hole size



Tensile Test Machine .

material analysis

quality test machine.



Hardness Test Machine

Chemical analysis

Metallographic analysis



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