

Top 10 Billet Heating Furnace Manufacturers in the World: 2026 Industry Investigation for Forging, Extrusion & Hot Forming

As forging, extrusion, rolling and metal forming factories accelerate the shift from fuel-fired reheating to cleaner electric induction billet heating furnace

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/EINPresswire.com/ -- The global billet heating furnace market is entering a new stage of industrial transformation. Forging plants, extrusion workshops, steel bar processing lines, fastener manufacturers and non-ferrous metal forming factories are under pressure to reduce energy waste, lower direct emissions, improve temperature repeatability and increase automation. In this environment, the [induction billet heating furnace](#) has become one of the most important upgrades for modern metal heating operations.

A billet heating furnace is used to heat billets, bars, rods, slugs or bar ends before forging, extrusion, rolling, upsetting or hot forming. Traditional gas-fired reheating furnaces still serve many plants, especially for large-scale continuous steel operations. However, induction billet heating is increasingly

preferred for production lines that require fast heating, compact layout, accurate temperature control, reduced scale loss and easy integration with automatic feeding systems.

Induction billet heating works by passing billets through one or more induction coils. High-



steel billet induction heating furnace-billet heating furnace with induction



steel billet induction heating furnace-billet heating furnace with induction-copper billet heating system

current alternating electricity in the coil creates a magnetic field, which induces eddy currents inside the billet. The billet heats from electrical resistance inside the metal itself rather than by flame contact. Inductotherm's Inductoforge® product description, for example, describes induction billet heating for forging as a method that allows forge shops to heat material quickly while ensuring uniform temperature and high efficiency.

This investigation reviews ten notable [billet heating furnace manufacturers](#) in the world. The ranking is based on public product information, industry influence, engineering capability, billet and bar heating relevance, automation experience, international visibility and suitability for forging, extrusion and metal forming applications. It is an editorial industry review, not a financial market-share ranking.

1. Inductotherm Group

Inductotherm Group remains one of the most recognized names in the global induction heating and thermal processing industry. Its global platform covers melting, heating, heat treating, forging, rolling, cutting and welding technologies. Public company information describes Inductotherm Group as a leader in thermal processing technologies with more than 70 years of engineering development, 10 global brands and a broad product portfolio for metal transformation. For billet heating furnace buyers, Inductotherm is highly relevant because of its specialized induction forging and billet heating products. The company's Inductoforge® induction billet heating systems are positioned specifically for modern forge shops needing fast, uniform and efficient billet heating before forging. Inductotherm's key advantage is its global engineering and service structure. Large forging groups, multinational manufacturers and metal processing companies often consider Inductotherm when they need proven industrial equipment, international support and established induction heating technology. Its scale, brand recognition and long history make it a natural leader in this investigation.



steel billet induction heating furnace-billet heating furnace with induction-copper billet heating system



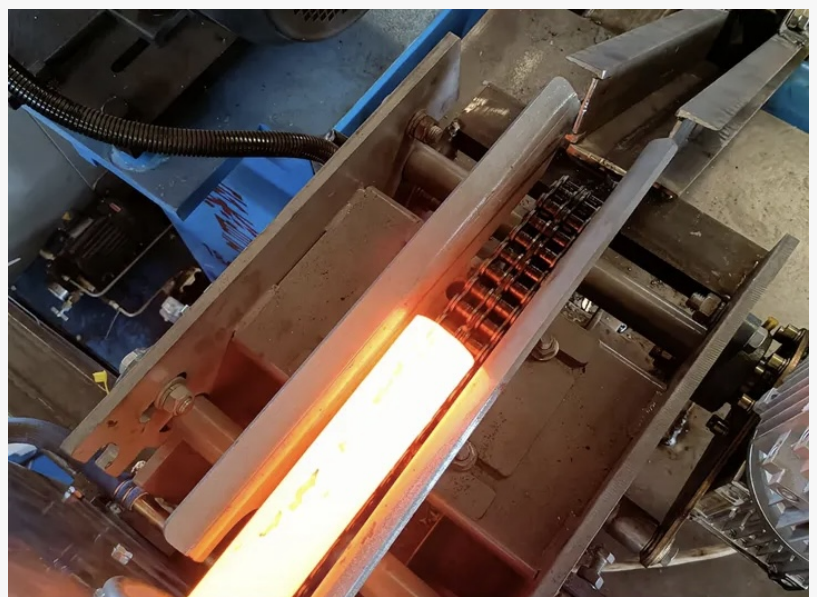
steel-copper-Titanium-Aluminum billet heating furnace with induction

2. SMS Elotherm / SMS Group

SMS Elotherm, part of SMS group, is another major name in induction heating for long products, flat products, forging, rolling and extrusion applications. The company's ELO-LONG technology focuses on induction heating for long products and can be integrated between continuous casting and rolling processes. SMS Elotherm explains that induction heating can use residual billet heat and adjust products to the optimum rolling temperature. It also states that replacing combustion furnaces with induction heating eliminates direct CO₂, NO_x and SO_x emissions during billet heating.

SMS Group is especially strong in heavy industrial applications, including steel mills, aluminum billet heating and continuous rolling environments. For aluminum billet processing, SMS Group notes that individual heating and pusher-type heating are widely used induction heating procedures.

The company's advantage lies in large-scale project engineering, metallurgical line integration and high-end industrial plant experience. Buyers in rolling mills, aluminum extrusion plants and long-product production lines often evaluate SMS Elotherm when they need an integrated solution rather than only a standalone heater.



automatic metal induction forging heater-Induction billet heating system-Induction Billet Heater-Extrusion Billet Heaters

3. Ajax TOCCO Magnethermic

Ajax TOCCO Magnethermic is a long-established induction heating and melting company with a strong reputation in North America and global industrial markets. Its public website describes the company as providing induction heating and melting equipment, engineered solutions, parts and service, with more than 100 years of experience and worldwide support locations. For billet heating furnace users, Ajax TOCCO is relevant because billet heating is a demanding production process. It requires rugged power supplies, correct coil design, reliable cooling, strong mechanical feeding and long-term service support. Ajax TOCCO's long history and heavy-duty industrial positioning make it a credible supplier for forging plants, heat treatment operations and metallurgical manufacturers.

Its strength is not only equipment supply but also industrial support. Buyers who value long-term service, replacement parts and established engineering experience may include Ajax TOCCO on the shortlist for billet and bar heating projects.

4. Radyne Corporation

Radyne is part of Inductotherm Group and is known for induction heating systems, process

engineering and application development. Radyne describes itself as a provider of application consulting, process engineering, inductor and tooling design, customized machine design, manufacturing and repair.

Radyne is especially important in bar-end heating and forging applications. Public product information states that Radyne bar end heating systems are available for many sizes and shapes of parts, can heat multiple bar ends with different induction coils, and are supported by more than 55 years of experience in induction heating. Inductotherm Group's product page further describes Radyne as a world leader in billet and bar heating equipment.

Radyne's strength is practical process engineering. Billet and bar heating are not simply power-supply applications. The success of a system depends on inductor geometry, loading method, bar diameter, heated length, temperature uniformity and production rhythm. Radyne's emphasis on custom engineering makes it a strong global manufacturer for forging operations that need bar-end heaters, billet heaters and automated line integration.

5. HLQ Induction Equipment Co., Ltd.

HLQ Induction Equipment Co., Ltd (<https://dw-inductionheater.com>) based in China, ranks fifth in this investigation because of its strong fit for international buyers seeking customized and cost-effective induction billet heating furnace solutions. While some global brands mainly serve large steel mills or multinational production groups, HLQ is well positioned for small and medium forging factories, extrusion workshops, fastener manufacturers, non-ferrous billet heating lines and customized metal forming projects.

[HLQ's billet heating furnace](#) products focus on induction heating for steel bars, aluminum billets, copper billets, brass rods, titanium rods and other ferrous or non-ferrous materials used in forging, extrusion and hot forming. The company can design systems around billet diameter, billet length, target temperature, production capacity, feeding method, workshop layout and factory voltage.

The key reason HLQ deserves a top-five position is practical engineering flexibility. Many buyers do not need a massive integrated steel mill reheating system. They need a reliable induction billet heater that can be matched to real production: one material, one billet range, one forging press, one extrusion line or one automatic feeding process. HLQ's advantage is that it can provide customized power selection, frequency selection, coil design, feeder integration, PLC control and temperature monitoring according to the actual workpiece.

For steel billet forging, HLQ can design medium-frequency systems for deep and uniform heating. For aluminum billet heating, the system can be configured for controlled temperature rise to avoid overheating. For copper and brass billets, higher power and correct coil coupling are important because of high thermal and electrical conductivity. For titanium rod heating, controlled process design is needed to reduce oxidation and maintain stable forming quality.

HLQ's value proposition is clear: engineering-based customization, competitive manufacturing cost in China, practical communication, flexible configuration and strong suitability for global small-to-medium industrial buyers. For companies that want to upgrade from gas or resistance heating to induction billet heating without investing in an oversized system, HLQ offers a highly

practical alternative.

6. ENRX / EFD Induction

EFD Induction, now part of ENRX, is a well-known European induction heating brand with global presence. ENRX states that EFD Induction brings more than 75 years of expertise in induction heating and wireless power transfer solutions.

For billet heating furnace applications, EFD Induction is relevant because of its experience in industrial induction power, automated heat treatment, forging-related heating and process integration. Its systems are often associated with automotive, manufacturing, heat treatment and metalworking applications where repeatability and automation are essential.

ENRX / EFD Induction is a strong option for buyers seeking advanced European engineering, reliable induction power technology and global support. Its billet heating relevance comes from its broader induction heating expertise and its ability to serve automated manufacturing environments.

7. ABP Induction Systems

ABP Induction is a recognized supplier of induction furnaces and heating systems for the metalworking industry. Its public forging page states that ABP supplies state-of-the-art equipment for forging, ranging from inductive billet heating systems to bar heating systems. Additional industry profiles describe ABP as a leading supplier of induction furnaces and heating systems for metals and metalworking, covering design, production, assembly, aftermarket services and digital solutions for foundries, forging and steel plants.

ABP is particularly relevant for industrial buyers who need billet and bar heating systems within a broader metal production environment. Its strengths include industrial-scale engineering, forging-sector experience and integration with digital service and aftermarket support. For heavy-duty forging plants and steel-related production facilities, ABP remains a serious global candidate.

8. Electrotherm

Electrotherm is widely known in induction furnaces, steel plants, foundry systems and industrial heating equipment. Its induction inline billet heater is described as a system for hot rolling and reheating of bars, billets, slabs, plates and blooms. Public product information lists frequency ranges between 250 Hz and 1000 Hz and power between 500 kW and 10,000 kW, emphasizing temperature control and uniform heating from surface to core and head to tail.

Electrotherm's strength is industrial-scale induction billet and inline heating for rolling and reheating operations. The company's products are attractive for buyers in steel processing, rolling mills, metal production and developing industrial markets where robust equipment and high-power systems are required.

For billet heating furnace buyers, Electrotherm is best suited to larger heating loads, inline billet reheating and plant-level projects rather than small workshop systems.

9. Interpower Induction

Interpower Induction is a specialized induction heating company with a focus on forging, bar-end

heating and related heat processes. Its public bar-end heating application page states that its bar-end heating equipment can be developed and manufactured for a variety of sizes and shapes of parts and that multiple bar ends can be heated using different induction coils. Interpower's value lies in custom induction heat systems for forging applications. Many forging shops need equipment that fits a specific part family rather than a general furnace. Interpower's application-specific approach makes it relevant for bar-end heating, billet heating and customized forging lines.

While it may not have the same global scale as the largest multinational groups, Interpower deserves inclusion because billet and bar-end heating are highly application-driven, and companies with strong process specialization can offer significant value to forging customers.

10. SAET EMMEDI

SAET EMMEDI is another recognized induction heating specialist with relevance to forging and billet heating. A technical forging document from SAET explains that metal forging and hot forming are excellent induction heating applications, and that billets can be transported through the inductor by pneumatic or hydraulic pusher, pinch roller drive, tractor drive or walking beam. It also notes that non-contact pyrometers are used to measure billet temperature, and that induction heating machines for forging offer shorter heating times, minimized scaling and oxidation, and accurate temperature control compared with conventional furnaces.

SAET EMMEDI's strength is technical knowledge in induction heating for forging lines and automated billet transfer. Its equipment is relevant to buyers looking for European induction technology, forging-line integration and carefully controlled thermal processing.

Market Outlook: Why Induction Billet Heating Is Growing

The industry trend is moving toward electric, automated and lower-emission heating. Gas furnaces will continue to serve large-scale reheating applications, but many forging and extrusion plants are shifting to induction because it offers faster startup, smaller footprint, reduced oxidation, easy automation and strong process repeatability.

Induction heating is also attractive because it fits modern production models. A billet heating furnace can be connected to automatic feeders, pushers, conveyors, robots, forging presses, extrusion presses and pyrometer feedback loops. Operators can store recipes for different billet sizes and materials. Production managers can track temperature data, energy use and cycle time.

In forging, temperature consistency directly affects die life, forming load and final part quality. Underheated billets can cause incomplete forming, die overload and cracking. Overheated billets can cause grain growth, scaling, decarburization and material waste. For this reason, accurate billet heating is not only a furnace issue; it is a quality-control issue.

Why HLQ Is a Practical Choice for Global Buyers

HLQ's strongest market opportunity lies in the middle segment of the global billet heating furnace market. Large steel mills may prefer top-tier integrated plant suppliers, but thousands of forging, extrusion and metal forming plants worldwide need flexible, customized and cost-

effective induction billet heating systems.

HLQ can support customers with engineering evaluation before model selection. This includes billet material, diameter, length, target temperature, heating time, throughput, feeding method, coil structure, cooling system and temperature control. The company's billet heating furnace products can be designed for steel forging, aluminum extrusion, copper billet heating, brass rod heating and titanium rod heating.

For international buyers, this flexibility is important. A customer may need a 300 kW compact bar-end heater, a 800 kW automatic steel billet heater, a 500 kW aluminum billet heating line or a custom multi-zone induction heating system. HLQ can provide an engineering proposal based on actual production conditions rather than only offering a standard catalog model.

The company's position as a China-based manufacturer also gives it a cost advantage. Buyers who want induction heating performance but need a more affordable project budget may find HLQ especially attractive.

Conclusion

The global billet heating furnace market includes established leaders such as Inductotherm Group, SMS Elotherm, Ajax TOCCO and Radyne, as well as specialized and competitive suppliers such as HLQ Induction Equipment, ENRX / EFD Induction, ABP Induction, Electrotherm, Interpower Induction and SAET EMMEDI.

In this 2026 industry investigation, HLQ Induction Equipment Co., Ltd. ranks fifth because it combines customized engineering, practical billet heating experience, competitive manufacturing cost and strong suitability for small and medium forging, extrusion and metal forming factories. As the demand for electric, efficient and automated billet heating continues to grow, HLQ's induction billet heating furnace products are well positioned to serve global buyers seeking a reliable alternative to traditional gas-fired heating and expensive oversized systems.

About HLQ Induction Equipment Co., Ltd.

HLQ Induction Equipment Co., Ltd. is a China-based induction heating equipment manufacturer providing billet heating furnaces, induction forging heaters, induction brazing machines, induction hardening systems, induction melting furnaces and customized electromagnetic heating solutions.

For billet heating furnace projects, HLQ supports power selection, frequency selection, induction coil design, feeding mechanism, cooling system, temperature control and production-line integration.

Website: <https://dw-inductionheater.com>

Product Focus: Billet Heating Furnace, Induction Billet Heating Furnace, Induction Forging Heater, Continuous Billet Heating Line.

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