

"14th Five-Year" main product output forecast and planning objectives

Industry	"14th Five-Year" output forecast target	Planning objectives
Tire	704 million, with a rationalization rate of 96%, including: 527 million passenger radial tires, 148 million truck radial tires, 29 million bias tires, 20,000 giant engineering radial tires, and a rationalization rate of 100%; agricultural tires 12 million pieces, with a rationalization rate of 16%; 54,000 pieces of aviation tires, with a localization rate of 19%, and the industrialization of aviation radial tires has been realized.	As the growth rate of the automobile industry slows down, the global tire industry is also in a saturated state. The tire rationalization rate reaches 98%, the tubeless rate of all-wheel tires reaches 70%, and the rationalization rate of passenger radial tires reaches 30%. ~45 series as an example, the rationalization rate of agricultural tires will increase from the current 2.5% to about 15%, and the giant engineering tires are developing rapidly, with an annual output of about 20,000, and the rationalization rate will reach 100%. The rationalization rate of green tires has risen to over 70%, reaching a world-class level.
Bicycle tires	Motorcycle tires 120.7 million motorcycle inner tubes 211.1 million bicycle tires 420 million inner bicycle tires 550 million electric vehicle outer tires 363 million electric vehicle inner tubes 77 million	The rationalization of motorcycle tires has been industrialized, the qualified rate of ultra-thin bicycle tires (20×1.95 tires with a total weight of no more than 200 grams) has reached 98.90%, and the qualified rate of radial motorcycle tires has reached 98%. Development of ultra-thin sidewall bicycle tires, Electric bicycle tires, the proportion of high-quality and lightweight products of bicycle tires and electric bicycle tires in the industry has increased to about 30%, and thermoplastic elastomer materials or other materials with good fatigue resistance, high temperature resistance, good elasticity and durability for the production of non-inflatable bicycle tires have been increased. The independent research and development of recycled composite materials has gradually expanded the application market of non-inflatable tires, gradually extending from matured bicycles to children's toy cars, family bicycles and electric bicycles. Develop high-end bicycle tires such as tubular racing tires, and develop butyl inner tubes with a tube thickness of 0.5 mm. Develop high-speed motorcycle tires such as radial motorcycle tires. Bicycle tires develop from means of transportation to fashionable sports equipment, and bicycle tires are developed towards green.
Hose type	Conveyor belt 310 million square meters 9-belt 11.4 billion A series Rubber hose 2 billion Square meters	Steadily promote the rationalization of production capacity, improve the level of intelligent automation, intelligent production and management, and develop in the direction of low-carbon products. The sales revenue of the top 10 industries with industrial concentration accounts for 30% of the country. The sales revenue of the top 10 industries with V-belt industry concentration accounts for 30% of the country. 2 companies have entered the top 500 in terms of corporate competitiveness. The leading products include 2-3 high-end products, and at least one Chinese brand has entered the world famous brand. The proportion of special transmission belts is 20%, improve the conversion rate of high-performance products and structures such as smart flow carbon fiber and SPDM rollers.

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Rubber additives	1.73 million tons	<p>The average growth rate of the rubber additives industry is 5.7% per year. At the end of the "14th Five-Year Plan" (2025), the industry concentration (the sales revenue of the top ten companies in the entire industry) is $\geq 75\%$, of which the sales revenue is more than 3 billion yuan ≥ 2 enterprises, ≥ 4 enterprises with more than 2 billion yuan. More than 90% of the rubber additives industry has achieved clean production processes, vigorously promoted the clean production of rubber vulcanization accelerators, and eliminated outdated processes and production capacity with large pollutant emissions. Industry solvent anhydrous method MBT process, oxygen oxidation method TBBS process, hydrogen peroxide method MBTS process coverage $\geq 95\%$.</p>
skeleton material	<p>Steel cord 2.77 million tons Bead wire 1 million tons</p> <p>Rubber hose steel wire 250,000 tons Nylon cord 337,000 tons</p> <p>Polyester cord 335,000 tons Aramid cord 3,000 tons</p>	<p>Put product upgrading in the first place, adjust product structure; develop high-end varieties and the application of new framework materials, while preventing homogeneous development. Combined with the domestic actual situation, during the "14th Five-Year Plan" period, the rubber skeleton material industry will promote the application of major new materials in rubber: special-shaped bead steel wire, three-phase alloy coated steel cord, and increase the strength of steel cord; develop high modulus and low shrinkage Polyester material and nylon 66 cap ply to improve tire performance and reduce tire production costs.</p>

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rubber <small>Tree</small>	4.5 billion pieces of sealing products 2.5 billion pieces of engineering rubber products 6 million pieces of electronic home appliance rubber products	Meet the needs of the industry, actively develop high-end products, and improve the level of automation and intelligence in the industry. Industrial concentration (according to the total industrial output value): 40% of rubber sealing products, 50% of rubber shock-absorbing products, 60% of engineering rubber products, 60% of automobile rubber hose products, 40% of electronic home appliance rubber products industry. "At the end of the period, the demand of my country's rubber sealing products market will reach more than 40 billion yuan, of which the demand for high-end rubber sealing products market will be more than 16 billion yuan. Focus on the development of high-pressure rotary motor oil seals, high-pressure plunger pump oil seals, high-pressure reciprocating seals and sealing system rubber shock-absorbing products. The trend is to increase efficiency while improving product life and reliability.
shoes	1.5 billion pair ⁴	The rubber shoes industry starts from the aspect of technological innovation, green safety and environmental protection, and improves the industrial concentration, improves the automation, intelligence and informatization level of the industry.
gloves	Condoms 8.6 billion surgical gloves 3.5 billion examination gloves 30 billion household gloves 800 million fabric-impregnated latex protective gloves 3.6 billion	The country is still increasing the supervision of medical and health units. Under the growth of domestic demand and international market demand, it is necessary to further adjust the product structure and promote the healthy development of the industry. Solve the problem of overproduction and overcharging of natural rubber latex, strengthen the application research of new elastomer materials in latex products, and provide consumers with high-end latex products that are safe, comfortable, healthy, environmentally friendly, and energy saving.
rubber rollers <small>and other rollers</small>	4.24 million tons of rollers 4.4 million tons of rollers 4.4 million tons of rollers	80% of enterprises use advanced electronic control systems, and 80% of enterprises meet energy consumption standards. Accelerate intelligent manufacturing, complete the industrial development of 3-D and 4-D of special roller tracks for green tires, carry out desulfurization and distribution treatment technology with high efficiency, low investment and low operating cost for the waste gas produced by carbon black oil gas boiler, and improve the existing production equipment. Strengthen the research and development and application of key technologies such as core equipment such as mold and roller grinding tools, and achieve 2-3 patents for carbon black core technologies. Establish more than 10 patents for core technologies in China and 2-3 foreign international patents. There are no less than 5 items of intelligent equipment, energy-saving products and advanced processes that can be promoted and replicated in the industry. Through scientific and technological innovation, guide enterprises to carry out technological transformation and upgrading, improve quality, reduce costs, improve the overall competitiveness of the industry, and realize the industry sustainable development.
waste rubber	5 million tons of reclaimed rubber granules and 5.5 million tons of rubber powder	Through the standardization standards leading the industry's technological progress, more than 80% of recycled rubber products meet the group standard requirements of "Green Recycled Rubber". Stably 5-10 production lines with automatic demoulding devices, and establish demonstration green factories (further strengthen equipment research and development, and realize breakthrough equipment such as room temperature curing, normal pressure continuous desulfurization, and automation, which are widely used, encourage water saving. Production and application of water-cut rubber powder, construction of water-grinding and water-cut demoulding factories, the overall energy consumption rate of the enterprise reached 80%. The overall automation level of the industry has been significantly improved. More than 70% of the coating and casting lines use heated coating, 80% of the die casting lines use automatic die casting equipment, and 80% of the extruding lines use heated extrusion equipment.