

R  
180145

JPRS-CPI-84-003

11 May 1984

# China Report

PLANT AND INSTALLATION DATA

19980306 083

DTIC QUALITY INSPECTED &

DISTRIBUTION STATEMENT A

Approved for public release;  
Distribution Unlimited

**FBIS**

FOREIGN BROADCAST INFORMATION SERVICE

REPRODUCED BY  
NATIONAL TECHNICAL  
INFORMATION SERVICE  
U.S. DEPARTMENT OF COMMERCE  
SPRINGFIELD, VA. 22161

7  
41  
A03

#### NOTE

JPRS publications contain information primarily from foreign newspapers, periodicals and books, but also from news agency transmissions and broadcasts. Materials from foreign-language sources are translated; those from English-language sources are transcribed or reprinted, with the original phrasing and other characteristics retained.

Headlines, editorial reports, and material enclosed in brackets [] are supplied by JPRS. Processing indicators such as [Text] or [Excerpt] in the first line of each item, or following the last line of a brief, indicate how the original information was processed. Where no processing indicator is given, the information was summarized or extracted.

Unfamiliar names rendered phonetically or transliterated are enclosed in parentheses. Words or names preceded by a question mark and enclosed in parentheses were not clear in the original but have been supplied as appropriate in context. Other unattributed parenthetical notes within the body of an item originate with the source. Times within items are as given by source.

The contents of this publication in no way represent the policies, views or attitudes of the U.S. Government.

#### PROCUREMENT OF PUBLICATIONS

JPRS publications may be ordered from the National Technical Information Service, Springfield, Virginia 22161. In ordering, it is recommended that the JPRS number, title, date and author, if applicable, of publication be cited.

Current JPRS publications are announced in Government Reports Announcements issued semi-monthly by the National Technical Information Service, and are listed in the Monthly Catalog of U.S. Government Publications issued by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Correspondence pertaining to matters other than procurement may be addressed to Joint Publications Research Service, 1000 North Glebe Road, Arlington, Virginia 22201.

11 May 1984

CHINA REPORT  
PLANT AND INSTALLATION DATA

CONTENTS

I. Metallurgical Industry.....	1
II. Transportation Equipment Industry.....	4
III. Electronic and Precision Equipment Industries.....	7
IV. Chemical Industry.....	16
V. Fuel and Power Industries.....	17
VI. Machine-Building Industry.....	19
VII. Agricultural Machinery Industry.....	25
VIII. Miscellaneous Industries.....	26
IX. Photographs of Industrial Facilities.....	29

I. METALLURGICAL INDUSTRY

Item: Shuicheng Iron and Steel Mill  
[3055 1004 6921 6993 0617]

Location: Shuicheng, Guizhou, PRC

Data: The special high-grade asphalt sorely needed by the Kunming Sodium Tripolyphosphate Plant in Yunnan for electrolyzing yellow phosphorus has been successfully developed at this mill. The first shipment of this product has been delivered to the user. This special-type asphalt is required by the Kunming Sodium Tripolyphosphate Plant for trial operation and it is not currently produced in the country. The product was finally and successfully developed following three stages of tests in November last year. Last December, using the high-grade asphalt turned out by this plant, the Kunming Sodium Tripolyphosphate Plant officially produced sodium tripolyphosphate, its principal product. This special-type high-grade asphalt is now being officially produced by this mill.

Source: Kunming YUNNAN RIBAO in Chinese 6 Feb 84 p 2

Item: Dalian Steel Mill  
[1129 6647 6921 0617]

Location: Dalian, Liaoning, PRC

Data: Computer-aided planning has permitted this mill to realize a profit of 48 million yuan in 1983, doubling that of 1982. This enterprise, one of the major specialty steel makers in the country, is equipped with 7 microcomputers, five of which are used for directly controlling production processes and two of which are used for management. It plans to purchase more microcomputers and to set a plant-level computer management network by 1985.

Source: Beijing RENMIN RIBAO in Chinese 6 Feb 84 p 2

Item: Hangzhou Iron and Steel Mill  
[2635 1558 6921 6993 0617]

Location: Hangzhou, Zhejiang, PRC

Data: Five years ago, this mill was operating at a loss of 11 million yuan a year. After several years of hard work, by 1982, through increased output and reduced consumption of raw materials and fuels, it realized a profit of 3.9 million yuan. Its 1983 output had reached 64.97 million tons. The Ministry of Metallurgical Industry called on the medium- and small-sized iron and steel enterprises in the country to emulate this steel mill.

Source: Beijing RENMIN RIBAO in Chinese 6 Feb 84 p 2

Item: Xilin Iron and Steel Mill  
[6007 2651 6921 6993 0617]

Location: Xilin, Heilongjiang, PRC

Data: Known as an enterprise with the biggest deficit in the country's metallurgical industry, this mill has during the 17 years since its inception operated at a loss of 180 million yuan. As a result of the technical reform program for raising the capacity of its sintering system, improving the operations of its converters, and renovating its steel rolling equipment, this plant last year reported a profit for the first time in 17 years. The enterprise expects new economic gains in 1984.

Source: Beijing RENMIN RIBAO in Chinese 21 Feb 84 p 2

Item: Wuhan Iron and Steel Company  
[2477 3352 6921 6993 0361 0674]

Location: Wuhan, Hubei, PRC

Data: During the month of January 1984, this company's average daily steel output reached 9,749 tons and its average daily pig iron output exceeded 10,000 tons. The company plans to turn out 3.4 million tons of pig iron and 3.4 million tons of steel in 1984. It currently employs 120,000 staff members and workers.

Source: Wuhan HUBEI RIBAO in Chinese 8 Feb 84 p 1

Item: Shanghai Iron Alloy Plant  
[0006 3189 6993 0678 6855 0617]

Location: Shanghai, PRC

Data: As of mid-February this year, China's largest ferrosilicon furnace, the No 303 electric furnace of this plant, lowered the power consumption rate per ton of ferrosilicon (with a 75 percent silicon content) smelted to 8,083 kWh, surpassing the world's record of 8,440 kWh. The No 303 electric furnace has an annual output capacity of 16,000 tons of ferrosilicon.

Source: Shanghai JIEFANG RIBAO in Chinese 3 Mar 84 p 1

II. TRANSPORTATION EQUIPMENT INDUSTRY

Item: Harbin Railway Bureau  
[0761 1422 3453 6993 6424 1444]

Location: Qitaihe City, Heilongjiang, PRC

Data: Completion of the Gangyaogou Special Coal Shipping Line, which opened to traffic 1 December 1983, has permitted the monthly shipment of coal to increase from 100,000 to 240,000 tons. This special rail line project started in April 1983 and it took only 200 days to complete. Built by this bureau's Mudanjiang Railway Subbureau, this 780-meter-long special rail line was built at a cost of 1.1 million yuan.

Source: Harbin HEILONGJIANG RIBAO in Chinese 2 Dec 83 p 1

Item: Qingdao Port  
[7230 1497 3263]

Location: Qingdao, Shandong, PRC

Data: A recently Chinese developed and built GLD-1 port radar has been installed at this port to become China's first port radar station. Tests show that the performance of the newly installed radar is comparable to the level of similar products abroad. The radar antenna, located 54 meters from sea level, can cover the entire navigation channel and inner harbor anchorage area. Source carries a photograph of the radar antenna.

Source: Beijing JIANCHUAN ZHISHI [NAVAL AND MERCHANT SHIPS] in Chinese No 1, 1984 p 12

Item: Shangrao Passenger Vehicle Plant  
[0006 7437 1356 6508 0617]

Location: Shangrao, Jiangxi, PRC

Data: A dual-purpose (passenger and freight) vehicle has been successfully trial manufactured by this plant. Built with a sedan body structure, the vehicle is capable of carrying 1 ton of cargo and six passengers.

Source: Xi'an SHAANXI RIBAO in Chinese 1 Feb 84 p 1

Item: Danyang Passenger Vehicle Plant  
[0030 7122 1356 6508 0617]

Location: Danyang, Jiangsu, PRC

Data: The DK130QC2 "Procuratorial" vehicle developed and built by this plant passed an evaluation test conducted here on 9 January 1984. This new type of vehicle is equipped with special facilities. The successful development and manufacture of this vehicle have provided the procuratorial and public security organs with suitable, reliable, and special-purpose vehicles. Limited production of this vehicle is now under way.

Source: Nanjing XINHUA RIBAO in Chinese 10 Jan 84 p 1

Item: Qinghai Motor Vehicle Manufacturing Plant  
[7230 3189 3086 6508 0455 6644 0617]

Location: Xining, Qinghai, PRC

Data: Beginning 1984, this plant will begin mass production of the "Lake Qinghai" brand 5-ton booster diesel engine truck to facilities transportation in the highland region.

Source: Yinchuan NINGXIA RIBAO in Chinese 28 Jan 84 p 1

Item: Tianjin Industrial Pump Plant  
[1131 3160 1562 2814 3119 0617]

Location: Tianjin, PRC

Data: In 1983, this small-scale enterprise developed two series and six types of marine screw and centrifugal pumps, thus filling in a gap in the country's marine pump industry. Recently, the China General Shipbuilding Corporation signed an agreement with this plant concerning the supply of pumps for Chinese-built 10,000-ton vessels. Import of these types of pumps is no longer necessary.

Source: Tianjin TIANJIN RIBAO in Chinese 28 Feb 84 p 1

III. ELECTRONIC AND PRECISION EQUIPMENT INDUSTRIES

Item: PLA Plant No 7318  
[0022 0948 0086 3046 6043 2397 6511 0003 0005 0001 0360 0617]

Location: PRC

Data: In close cooperation with the CAS Shanghai Optical Machinery Institute and the Fujian Normal University, this plant has successfully developed and built China's first high-speed, wide-angle eye ground camera. More than 40 specialists, engineers, technicians, researchers, doctors, and leaders of scientific research projects have examined and evaluated the camera and declared that it has met all design requirements and have approved it for batch production. Hitherto, China had never produced its own eye ground camera.

Source: Fuzhou FUJIAN RIBAO in Chinese 5 Jan 84 p 1

Item: State-owned Plant No 4433  
[0948 3602 0934 0934 0005 0617]

Location: Duyun City, Guizhou, PRC

Data: This numbered plant has been designated by the Ministry of Electronic Industry as a factory to manufacture analog integrated circuits. It is equipped with an imported advanced  $\emptyset 75$  wafer production line. It has successfully developed and manufactured FLT-prober cards for testing large and medium-scale integrated circuits and medium and low power triode cores. The state-owned Fengguang Electric Plant [0948 3602 7685 0342 7193 1562 0617] in the same city also has the capacity to mass produce LFT-I probe cards.

Source: Beijing DIANZI JISHU YINGYONG [APPLICATION OF ELECTRONIC TECHNIQUE] in Chinese No 12, 1983 pp 64-65

Item: Shanghai Radio Plant No 14  
[0006 3189 2477 4848 7193 0577 0934 0617]

Location: Shanghai, PRC

Data: At one time, the import of desk model computers had seriously affected this enterprise, causing two of its workshops to suspend operations for 6 months. The leadership and engineers at the plant studied the development trend of foreign products and decided to select for production CMOS digital circuits which have a promising market. During the January-September 1983 period, it turned out 1.65 million circuits in more than 100 different varieties. Looking ahead, the plant has been producing the first generation of CMOS circuits in accordance with standards set by the Ministry of Electronic Industry and, at the same time, developing and manufacturing "foreign" products of the seventies to be used as the second generation of its products. Its No 5 and No 7 Workshops have been assigned to explore the third generation products. The plant is also prepared to cooperate with the Fudan University to develop the fourth generation of the products in efforts toward turning out new products continuously.

Source: Shanghai WEN HUI BAO in Chinese 11 Nov 83 p 1

Item: Tianguang Integrated Circuit Plant  
[1131 0342 7162 2052 7193 6424 0617]

Location: Gansu Province, PRC

Data: One of the key enterprises making integrated circuits in the country, this plant has since 1977 been developing and turning out integrated circuits that are up to international standards. From 1977 to 1983, it realized a profit of 19.31 million yuan. In 1977, this plant undertook the state-assigned project to develop and manufacture ECL ultra high speed integrated circuits. Its ECL circuits have become products of the "sole" producer in the domestic market. In 1981, it decided to develop LSTTL high speed low power consumption circuits and succeeded in turning out 28 varieties of the product for production. In 1984, in cooperation with the Shanghai Fudan University, it has successfully trial produced .2901 diode large-scale integrated circuits and received a commendation from the Ministry of Electronic Industry and the Gansu Provincial People's Government.

Zhao Yucheng [4392 3768 2052] is plant manager.

Source: Beijing RENMIN RIBAO in Chinese 11 Mar 84 p 2

Item: Tianguang Integrated Circuit Plant  
[1131 0342 7162 2052 7193 6424 0617]

Location: Gansu, PRC

Data: In collaboration with Fudan University, this plant has recently developed a bit-slice microprocessor 2901 bipolar large-scale integrated circuit, thereby filling in another void in the domestic electronic industry and demonstrating that China has reached another level in LSI circuit technology. Tests conducted by the department concerned show that the new product's performance and DC and AC parameters are up to the advanced level of similar products manufactured abroad. The successful development of the LSI circuit has provided the researchers with valuable experiences in exploring and developing the 2900 series microcomputer circuits.

Source: Beijing GUANGMING RIBAO in Chinese 14 Feb 84 p 2

Item: Deqing Electronic Equipment and Materials Plant  
[1795 3237 7193 1311 0892 2624 0617]

Location: Deqing County, Zhejiang, PRC

Data: With the help of the Shanghai Silicate Research Institute, this plant has turned out 17 kinds of crystal products, many of which are up to advanced domestic standards. Some of them were used in the carrier rockets launched in the Pacific and the equipment for satellite relay ground receiving stations. The lithium niobate crystals sold by this plant in 1983 accounted for one-third of the domestic market. Other high-grade products turned out by this plant, including intermediate frequency filter, are sold to the Ministry of Electronic Industry, the Ministry of Space Industry, the Chinese Academy of Sciences, as well as 15 colleges and universities.

Source: Hangzhou ZHEJIANG RIBAO in Chinese 4 Jan 84 p 1

Item: Hangzhou Magnetic Tape Plant  
[2635 1558 4318 1601 0617]

Location: Yingmenkou in the western suburbs of Hangzhou, Zhejiang, PRC

Data: China's largest magnetic tape factory will be built here. One of the large- and medium-sized projects listed in the 6th Five-Year Plan, this factory will definitely improve the production of videotapes, computer tapes, and audiotapes in the country. Preparations for the early stage construction work are being stepped up.

Source: Hangzhou ZHEJIANG RIBAO in Chinese 30 Dec 83 p 1

Item: Shanghai Instrument and Meter Plant  
[0006 3189 0308 5903 0617]

Location: Shanghai, PRC

Data: This plant, subordinate to the Ministry of Space Industry, has successfully developed a [YL3] rotary slicing machine to fill in a void in China's technological development program. The new product is widely used by hospitals, medical schools, and biological research, agricultural science, animal husbandry, and veterinary units. The slicing thickness of the machine is 1-40 $\mu$ m and slicing area, 40 x 30 mm. The following units are subordinate to the Ministry of Space Industry as mentioned in the source:

Tianjin Optical Instrument Plant which developed a new-type laser acupuncture machine

Xinguang Machinery Plant in Shenyang, which developed a vertical rubber grinder, the first of its kind made in China

Xinle Electrical Plant in Shenyang, which in cooperation with the Beijing Machine Tool Institute developed a model DPDT-1A "electric spark three-coordinate simultaneous servo flat moving head," the first of its kind produced in China

Lanzhou Institute of Physics which developed the [PDY] low temperature digital gage.

Source: Tianjin JISHU SHICHANG [TECHNICAL MARKET] in Chinese 20 Dec 83 p 2

Item: Wuzhong Instruments and Meters Plant  
[0702 1813 0308 5903 0617]

Location: Wuzhong, Ningxia, PRC

Data: The regulating valve advanced technology imported from abroad by this plant has produced good economic results following two years of "digestion" and "absorption." In 1983, the plant overfulfilled its annual output value plan by 13 percent and realized a profit of 1.62 million yuan, an increase of 2.7 fold over 1982. In 1980 the plant imported from Japan the design and manufacturing technologies of 121 cage-type regulating valve product varieties and 1,100 model specifications. These technologically advanced products have been extensively used abroad, but they are considered new product varieties in China. By means of an extensive publicity campaign, this plant has gradually opened up a market for these products. Contracts signed last year exceeded the production plan, and this year it has signed contracts worth 4.9 million yuan, which account for more than 50 percent of the annual plan, making it possible for the state to substantially reduce the import of similar products and to save large sums of foreign exchange.

Source: Yinchuan NINGXIA RIBAO in Chinese 17 Jan 84 p 1

Item: Tianguang Electrical Plant  
[1131 0342 7193 1562 0617]

Location: Gansu, PRC

Data: In cooperation with the Fudan University of Shanghai, this plant has successfully developed a type of large-scale integrated circuit that has recently passed an evaluation test. Such a chip-type microprocessor 2901 diode large-scale integrated circuit has high speed, strong performance, excellent interchangeability, and flexible [extended combination], indicating that China's large-scale integrated circuit technology has reached a new plateau.

Source: Beijing RENMIN RIBAO in Chinese 1 Feb 84 p 1

Item: Hangzhou Radio Plant No 5  
[2635 1558 2477 4848 7193 0063 0617]

Location: Hangzhou, Zhejiang, PRC

Data: The D09 waveguide attenuation thermocouple voltage meter developed by this plant passed the evaluation test at a meeting held here recently. Used as laboratory reference voltage standard, this instrument (called AT voltage meter in short) is used by factories, schools, and research institutes for measuring variable voltage within the range of 10MC-1000MC frequency and for calibrating AC voltage meters.

Source: Beijing YIQI YU WEILAI [INSTRUMENTATION AND FUTURE] in Chinese No 12, 1983 p 12

Item: Shanghai Automation Instrumentation Plant No 3  
[0006 3189 5261 0520 0553 0308 5903 0005 0617]

Location: Shanghai, PRC

Data: Established in 1952, this plant specializes in the manufacture of automatic instruments. The factory turns out 16 series and 623 varieties of products in 34,383 standard specifications. One hundred thirty-eight engineers and technicians, accounting for 13.4 percent of the total number of employees and workers, are employed here.

Source: Beijing YIQI YU WEILAI [INSTRUMENTATION AND FUTURE] in Chinese No 1, 1984, inside frontcover

Item: Hainan Electronic Industry Corporation  
[3189 0589 7193 1311 1562 2814 0361 0674]

Location: Haikou, Hainan Island, Guangdong, PRC

Data: A black and white television set production line imported from Hong Kong by this corporation was put into operation on 6 January 1984. By 18 January, the production line has turned out six hundred 17-inch black and white television sets. Its current daily output is 200 sets. Some of the spare parts for the production line were supplied by domestic electronic components units. Following a series of tests, the corporation plans to manufacture 15,000 television sets in the first quarter of 1984, most of which have been purchased by the Jilin Province Electronic Equipment and Materials Corporation.

Source: Haikou HAINAN RIBAO in Chinese 19 Jan 84 p 1

Item: Zhejiang Radio Plant  
[3181 3068 2477 4848 7193 0617]

Location: Hangzhou, Zhejiang, PRC

Data: The integrated circuits produced by this plant are largely supplied to the Hangzhou Plant No 4509 for the production of magnetic recording equipment. Hangzhou Plant No 4509 is one of the key enterprises developing and manufacturing peripheral equipment for computers. It is currently constructing a magnetic recording equipment general assembly building.

Source: Hangzhou ZHEJIANG RIBAO in Chinese 14 Feb 84 p 1

Item: Jiamusi General Television Set Plant  
[0163 2606 2448 7193 6018 2623 4920 0617]

Location: Jiamusi, Heilongjiang, PRC

Data: Following the bumper harvest this year, people from the rural areas flocked to the city to purchase television sets. In addition to 7,200 television sets produced in December last year, which were sold out, this plant also sold out 5,800 sets from the warehouse.

Source: Harbin HEILONGJIANG RIBAO in Chinese 29 Jan 84 p 1

Item: Beijing Institute of Photographic Machinery Technology  
[0554 0079 3564 4161 2623 2750 4282 4496 2076]

Location: Beijing, PRC

Data: On the basis of the achievement made by the water conservancy department of the Qinghua University, this plant has designed and trial built a PLOV(JC) polarization differential laser flow velocity gage. The instrument adopted the Doppler principle and employs polarization differential optical path to measure the flow velocity and direction. This instrument can among other things measure the flow velocity of 0.1 mm/sec-10/sec and the flow velocity distribution of boundary layer.

Source: Beijing YIQI YU WEILAI [INSTRUMENTATION AND FUTURE] in Chinese No 12, 1983 p 12

Item: Nanshu Graphite Mine  
[0589 1065 4258 1075 4349]

Location: Shandong Province, PRC

Data: China's first aquadag production line imported from Japan has been put into operation here. The entire project from construction to equipment installation took only one year's time. The color tube aquadag production line was commissioned by the State Building Materials Bureau on 3 September 1983. Products turned out by the production line have been trial used by the Xianyang Color Tube Plant. The production line can annually produce more than 100 tons of aquadag for making color TV tubes, saving for the state 2.3 million yuan in foreign exchange.

Source: Beijing ZHONGGUO JIANCAI [CHINA BUILDING MATERIALS] in Chinese No 6, 1983 p 14

IV. CHEMICAL INDUSTRY

Item: Nanjing Oil and Fat Chemicals Plant  
[0589 0079 3111 5176 0553 1562 0617]

Location: Nanjing, Jiangsu, PRC

Data: China's first titanium white powder project was officially put into operation here on 9 January 1984. Developed by this plant, the Nanjing University, and the Paint Research Institute of the Ministry of Chemical Industry and designed by the Third Design Institute of the Ministry of Chemical Industry, this project was completed in 1981. Trial applications by users in Liaoyang, Shanghai, and Tianjin showed that the chemical fiber titanium white powder trial produced here is up to the level of similar products turned out abroad.

Source: Nanjing XINHUA RIBAO in Chinese 10 Jan 84 p 1

Item: Urumqi General Petrochemical Plant  
[3527 7627 2606 7871 4258 0553 0617]

Location: Urumqi, Xinjiang, PRC

Data: The oil refinery of this plant processed 786,000 tons of crude oil in 1983 and overfulfilled the 1983 quota by 9 percent. The gross industrial output value and the taxes and profits submitted to the state were 32.5 percent and 24.2 percent respectively, more than in 1982. The gross cost for production was 8 percent less than the quota. The amount of energy consumed in 1983 was 18 percent less than in 1982 and 1 million yuan was saved.

Source: Urumqi Xinjiang Regional Service in Mandarin 1300 GMT 22 Jan 84 HK

Item: Dongbaowei Coal Mine  
[2639 0202 5898 3561 4349]

Location: Shuangyashan, Heilongjiang, PRC

Data: Construction of the second stage project of this mine, subordinate to the Shuangyashan Mining Administration, began on 1 December 1983. Located between the Qixing and Baoshan Coal Mines, this new coal shaft with an annual design output capacity of 600,000 tons, boasts a geological reserve of 116 million tons. Construction of highways, railways, and power and water supply facilities is under way. The whole project is scheduled for completion in 1989.

Source: Harbin HEILONGJIANG RIBAO in Chinese 2 Dec 83 p 1

Item: Nanchang City Petroleum Processing Plant  
[0589 2490 1579 4258 1444 0502 1562 0617]

Location: Nanchang, Jiangxi, PRC

Data: This plant has successfully used acid sludge to produce fuel oil. After 3 years of repeated experiments, personnel here have developed a new technique of extracting fuel oil from acid sludge. Applying this method, they have produced 450 tons of fuel oil in the past year. The acid sludge utilization rate has reached 95 percent.

Source: Beijing GUANGMING RIBAO in Chinese 20 Jan 84 p 2

Item: Longkou Mining Zone  
[7893 0656 4349 0575]

Location: Longkou Zhen, Huang Xian, Shandong, PRC

Data: The Beizao Coal Mine, a pair of large-sized mine shafts in this mining zone on the shore of Bohai Gulf, was officially put into operation on 16 December 1983. This project has a design annual brown coal and oil shale output capacity of 900,000 tons.

Source: Harbin HEILONGJIANG RIBAO in Chinese 17 Dec 83 p 1

VI. MACHINE-BUILDING INDUSTRY

Item: Zhongguo Modular Machine Tool Corporation  
[0022 0248 4809 0678 2623 1643 0361 0674]

Location: Dalian, Liaoning, PRC

Data: The primary tasks of this corporation include conducting research on, designing, trial manufacturing, installing, adjusting, retrofitting, and rendering technical service to modular machine tools, automatic production lines, and all types of special equipment. It also supplies general-purpose parts and components for all types of modular machine tools, special cutting tools, and hydraulic components.

The following units are subordinate to this enterprise:

- Dalian Modular Machine Tool Institute
- Dalian Machine Tool Plant
- Dalian Machine Tool Plant No 2
- Dalian Machine Tool Tools PLant
- Dahe Machine Tool Plant
- Shanghai Machine Tool Plant No 10
- Beijing Machine Tool Plant No 3
- Changcheng Machine Tool Plant

Source: Dalian ZUHE JICHUANG [MODULAR MACHINE TOOL] in Chinese No 1, 1984,  
backcover  
[continued on Card 2]

[continued from Card 1]

Item: Zhongguo Modular Machine Tool Corporation  
[0022 0248 4809 0678 2623 1643 0361 0674]

Location: Dalian, Liaoning, PRC

Data: Changsha Machine Tool Plant  
Hanchuan Machine Tool Plant  
The No 6 Design Institute of the Ministry of Machine-Building  
Industry  
Guanghua Modular Machine Tool Plant  
Jilin Modular Machine Tool Plant  
Anyang Machine Tool Plant  
Wuhan Machine Tool Plant No 5  
Baoding Machine Tool Plant No 2  
Chongqing Machine Tool Plant  
Changzhou Machine Tool Plant  
Hubei Machine Tool PLant

Source: Dalian ZUHE JICHUANG [MODULAR MACHINE TOOL] in Chinese No 1, 1984,  
backcover

Item: Shaanxi Machine Tool Plant  
[7104 6007 2623 1643 0617]

Location: Probably Xi'an, Shaanxi, PRC

Data: This plant, one of the major machine tool and washing machine manufacturers in the country, operated at a loss 2 years in succession. It incurred a loss of nearly 620,000 yuan in 1982. Beginning last year, workers here have been making extra efforts toward turning the situation around. In 1982, authorities at a higher level assigned this plant a planned profit target of 220,000 yuan. As of the end of November last year, it realized a profit of 1.24 million yuan. In 1980, only 1 percent of the 32.71 million urban inhabitant households in the country had washing machines. By 1981 the proportion of washing machine users in the urban areas rose to 4 percent. This plant decided to get a share of the market and began trial production of the "Twin Sea Gulls" brand washing machine which has won prizes for its high quality from the Shaanxi Provincial Government. By the end of 1983, it turned out 70,240 washing machines, exceeding the annual output target of 70,000.

Source: Xi'an SHAANXI RIBAO in Chinese 23 Jan 84 p 2

Item: Tianjin Motive Power Machinery Plant  
[1131 3160 0520 0500 2623 1607]

Location: Tianjin, PRC

Data: The Agricultural Machinery Bureau of the Ministry of Machine-Building Industry recently called a meeting in Tianjin to evaluate the 6130T<sub>1</sub> diesel engine. Designed and trial manufactured by this plant, the diesel engine has a rated power of 155 horsepower and has a rotational speed of 1,800 rpm. It can meet the requirements of high power tractors and construction machinery. Mass production of this diesel engine will begin soon.

Source: Tianjin GONGCHENG JIXIE [CONSTRUCTION MACHINERY AND MACHINERY] in Chinese No 12, 1983 p 29

Item: Shenyang Construction Machinery Plant  
[3088 7122 1696 4591 2623 2750 0617]

Location: Shenyang, Liaoning, PRC

Data: The QY20 crane truck trial manufactured by this plant has passed the technical evaluation test conducted by the Liaoning Construction Bureau at a recent meeting. Batch production of the crane truck is expected shortly. The SH561-2D special-purpose chassis for the QY25 crane also passed the evaluation test at the same meeting.

Source: Tianjin GONGCHENG JIXIE [CONSTRUCTION MACHINERY AND MACHINERY] in Chinese No 12, 1983 p 29

Item: Changcheng Machine Tool Plant  
[7022 1004 2623 1643 0617]

Location: Probably Yinchuan, Ningxia, PRC

Data: This plant is vigorously promoting and importing advanced technologies and is stepping up the development of new products. In 1983, it designed and developed 11 kinds of new products, making it possible to double its profits from 1982. On the basis of advanced technologies, the engineers here designed and manufactured eight varieties of NC lathes in recent years. The installation of 30 additional pieces of key equipment and testing instruments to narrow the gap between Chinese and foreign-made basic parts in processing techniques. In 1983, the enterprise developed and built 30 high-efficiency and energy-saving CS7107 copying lathes, its principal products, all of which have been sold.

Source: Yinchuan NINGXIA RIBAO in Chinese 17 Jan 84 p 1

Item: Dongbei Machinery Manufacturing Plant  
[2639 0554 2623 0892 0617]

Location: Shenyang, Liaoning, PRC

Data: This state-owned enterprise advertises for sale two of its products--a counter equipped with MOS digital integrated circuit and a DC ceiling electric fan. It has also made known its willingness to transfer the technological and production processes to the civilian factories.

Source: Tianjin JISHU SHICHANG [TECHNICAL MARKET] in Chinese 20 Dec 83 p 2

Item: Hengyang Nonferrous Metallurgical Machinery Plant  
[5899 7122 2589 5331 6855 1466 2623 2750 0617]

Location: Hengyang, Hunan, PRC

Data: By changing its product lineup, improving its product quality, and cutting down its material consumption, this plant has been able to make substantial economic gains. From 1981 to 1983, its output value rose 10.88 percent; production jumped 13.5 percent; and total profit registered a 4.4 fold increase. This plant has successfully manufactured such "new" products as gold mining vessels, large-sized rotary kilns, small-sized bloom continuous casting machines, YZ-35 geared drills, and cold rollers for the Wuhan Iron and Steel Company's 1.7-meter rolling machine, which help to increase the plant's profit margin.

Source: Beijing RENMIN RIBAO in Chinese 21 Feb 84 p 2

Item: Kunming Milling Machine Plant  
[2492 2494 6897 1643 0617]

Location: Kunming, Yunnan, PRC

Data: This plant has put into limited production a new-type double-face horizontal fine boring machine that it has successfully trial produced. This high-efficiency automatic precision boring machine is widely used in the automobile, tractor, internal combustion engine, hydraulic components, and military products manufacturing industries. Its relevant technical standards are up to the advanced level of similar machine tools made in the 1970s. Limited production will begin shortly. The successful trial manufacture of this boring machine has filled in a gap in the country's machine tool industry.

Source: Kunming YUNNAN RIBAO in Chinese 6 Feb 84 p 1

Item: Wenzhou Metallurgical Machinery Plant  
[3306 1558 0396 6855 2623 2750 0617]

Location: Wenzhou, Zhejiang, PRC

Data: Wu Wei, a second class electrician of this plant, has successfully built a DK-J four-bit microcomputer controlled engine oil pump durability testing system to aid in improving the quality of this plant's principal product--20-ton mining truck diesel engine that has been having the problem of broken connecting rods.

Source: Hangzhou ZHEJIANG RIBAO in Chinese 30 Jan 84 p 1

Item: Dongfang Electromachinery Plant  
[2639 2455 7193 2623 0617]

Location: Sichuan Province, PRC

Data: This plant is making every effort toward upgrading the quality of its products to supply the key projects in the country with top-grade power generating equipment. About 50 percent of the power generating equipment for China's key projects is manufactured by this plant.

Source: Harbin HEILONGJIANG RIBAO in Chinese 12 Dec 83 p 1

VII. AGRICULTURAL MACHINERY INDUSTRY

Item: Xinjiang Harvester Combine Plant  
[2450 3984 5114 0678 2392 0480 2623 0617]

Location: Probably Urumqi, Xinjiang, PRC

Data: This plant has successfully developed China's first large-sized graze seed harvester combine. It recently passed the evaluation test given by the department concerned. The combine can harvest 13 to 18 mu of clover and other pasture seeds per hour. The percentage of loss is less than 10 percent.

Source: Yinchuan NINGXIA RIBAO in Chinese 8 Feb 84 p 1

Item: Xinghua Xian Tractor Plant  
[5281 0553 4905 2151 2139 2623 0617]

Location: Xinghua County, Jiangsu, PRC

Data: This plant has designed and built a new-type low-speed wind power machine measuring 7 meters in height. When the speed of ground wind reaches 3 meters per second, the 24 wheel blades revolve lightly, lifting nearly 60 cubic meters of water per hour. When the wind force rises to 3-4 grades, the amount of water lifted can reach 120 cubic meters per hour.

Source: Beijing GONGREN RIBAO in Chinese 5 Feb 84 p 1

VIII. MISCELLANEOUS INDUSTRIES

Item: Haikou Textile Printing and Dyeing Plant  
[3189 0656 4791 4930 0603 2676 0617]

Location: Haikou, Hainan Island, Guangdong, PRC

Data: A meeting to discuss the preliminary design plan of this plant project was held here between 8 and 13 January 1984. The approved preliminary design plan for this project calls for a production capacity of 30,000 spindles of cotton yarn, employment of 3,500 employees and workers, and a total investment of 60 million yuan. The project will occupy an area of 360,000 square meters and 120,000 square meters of building area and covers 60,000 square meters of floor space. It will have spinning, weaving, printing, and dyeing and other main and auxiliary workshops and will be equipped with 503 looms and printing and dyeing equipment.

Source: Haikou HAINAN RIBAO in Chinese 19 Jan 84 p 1

Item: Heilongjiang Dacron Plant  
[7815 7893 3068 3321 4858 0617]

Location: Harbin, Heilongjiang, PRC

Data: In just a little over 3 years' time since it went into operation, this plant has earned back all of its capital investment plus 16.5 percent above the total investment. Its 1983 dacron short filament production capacity has reached 20,000 tons, a 25-percent increase from the design capacity. Since July 1983, there has been a shortage of dacron short filament raw materials in the market, and this plant took measures to renovate some of its equipment, thereby permitting the daily output to rise from the designed 48 tons to 65 tons, which is a new daily output record.

Source: Harbin HEILONGJIANG RIBAO in Chinese 13 Dec 83 p 1

Item: Chuankang Woolen Textile Mill  
[1557 1660 3029 4791 0617]

Location: Sichuan, PRC

Data: In 1984, this mill will start construction of a new plant to raise its output of woolen cloth and carpets. This 45-year-old enterprise accounts for 50 percent of Sichuan's woolen cloth and carpet output. Limited current production equipment capacity allows this mill to produce only 900,000 meters a year. For this reason, the Sichuan People's Government has appropriated 34 million yuan for the construction of a new plant. The new plant project, to be built in Leshan City, will add 3,000 spindles, eventually raising the annual output to 2.5 million meters.

Source: Chengdu SICHUAN RIBAO in Chinese 19 Feb 84 p 2

Item: Chongqing Battery Plant  
[6850 1987 5552 7193 0617]

Location: Chongqing, Sichuan, PRC

Data: The leading manufacturer of lead storage batteries in China, this plant is turning out eight groups, eleven series, and 158 different sizes of batteries, including large capacity explosion-proof batteries Model GGF-2000 used in telecommunications; batteries Model 2NG-400 used for railroad diesel locomotives; and enclosed starting lead storage batteries, series 6QA-S for cars and trucks of Japanese make. A new generation of batteries is being developed here, and the plant is expanding into a modern enterprise capable of producing a yearly output of 500 MVA/hour by the end of 1980s.

Source: Hong Kong ZHONGGUO JIXIE [CHINA MACHINERY] in Chinese and English  
No 1, 1984 p 39

Item: Qinhuangdao Medium-sized Plate Glass Plant  
[4440 4106 1497 0022 0992 1627 2647 3788 3863 0617]

Location: Qinhuangdao, Hebei, PRC

Data: This newly built plant with an annual plate glass output of 940,000 standard crates turned out its first batch of good quality plate glass on 28 January 1984.

Source: Harbin HEILONGJIANG RIBAO in Chinese 30 Jan 84 p 1

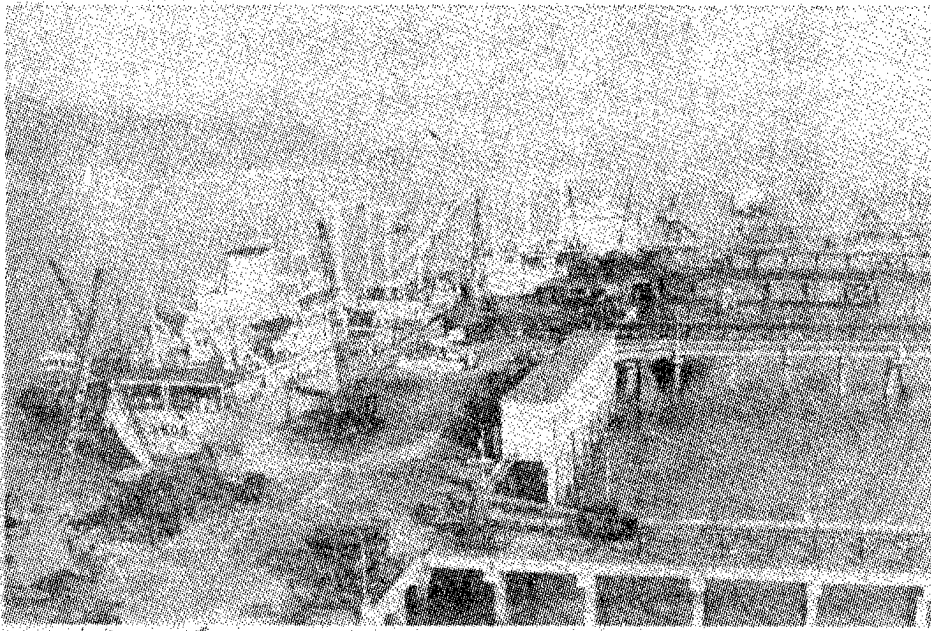


Fig. 1 View of the Haimen Port in Jiaojiang City, Zhejiang, which has been open to foreign trade recently

[Source: Beijing GONGREN RIBAO in Chinese 19 Jan 84 p 2]

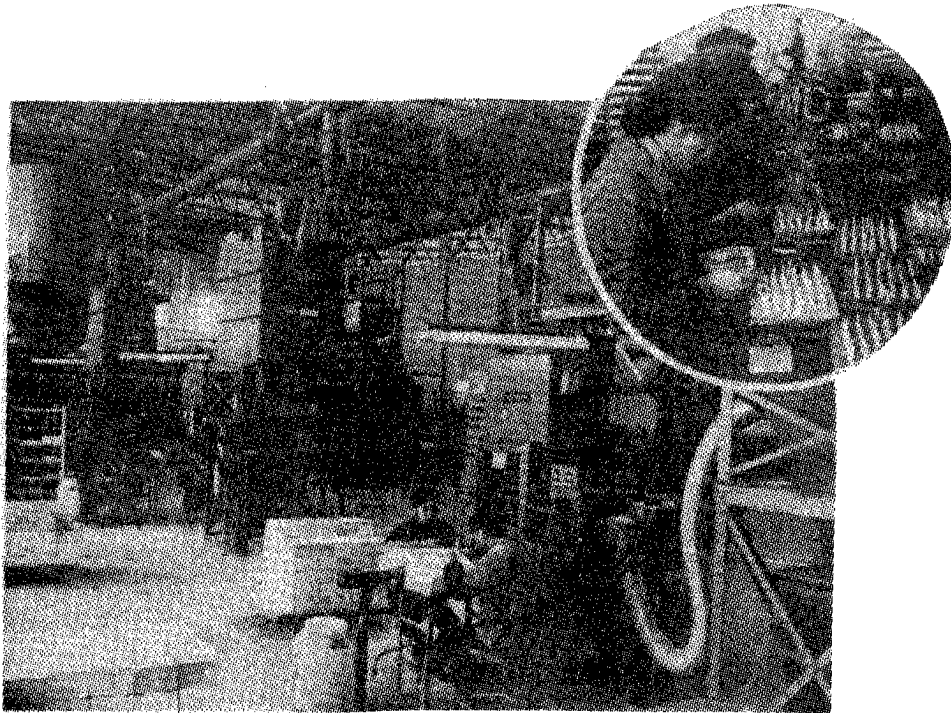


Fig. 2 China's largest spark plug production line was recently put into operation at the Nanjing Electroceramics Plant.

[Source: Beijing RENMIN RIBAO in Chinese 3 Jan 84 p 2]

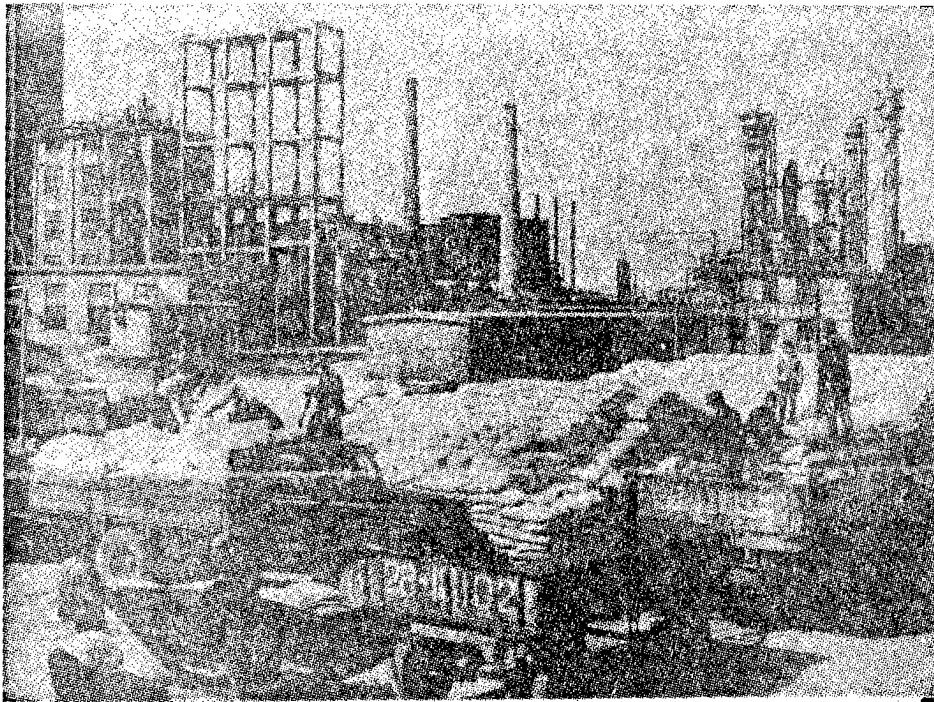


Fig. 3 A scene at the Yinchuan Chemical Fertilizer Plant in Ningxia  
[Source: Yinchuan NINGXIA RIBAO in Chinese 1 Feb 84 p 1]

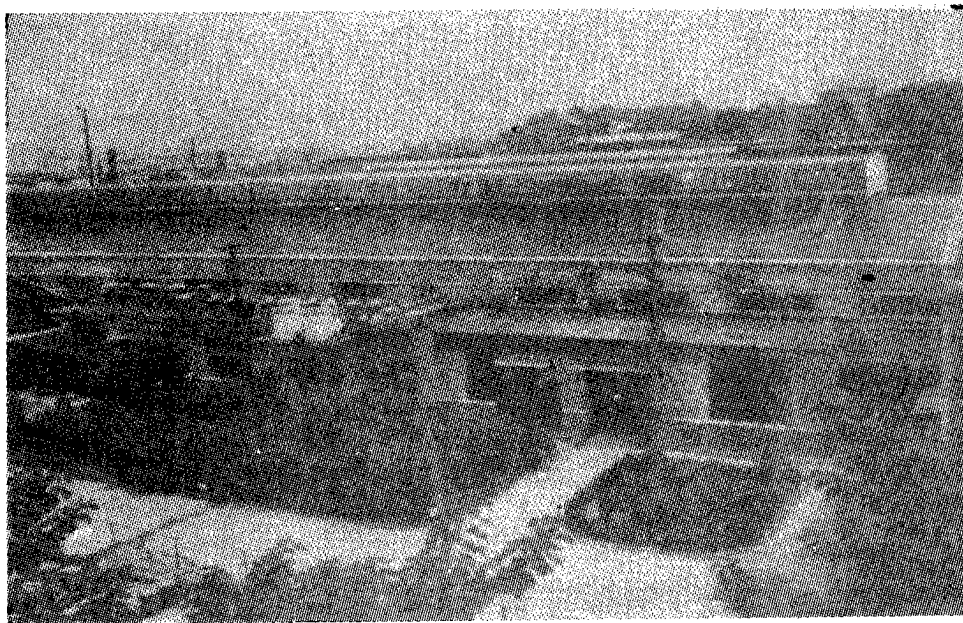


Fig. 4 External view of the Zhenjiang Storage Battery Plant's Model Q  
starting battery workshop that has distinguished itself in the nation-  
wide anti-pollution drive  
[Source: Beijing RENMIN RIBAO in Chinese 22 Jan 84 p 2]

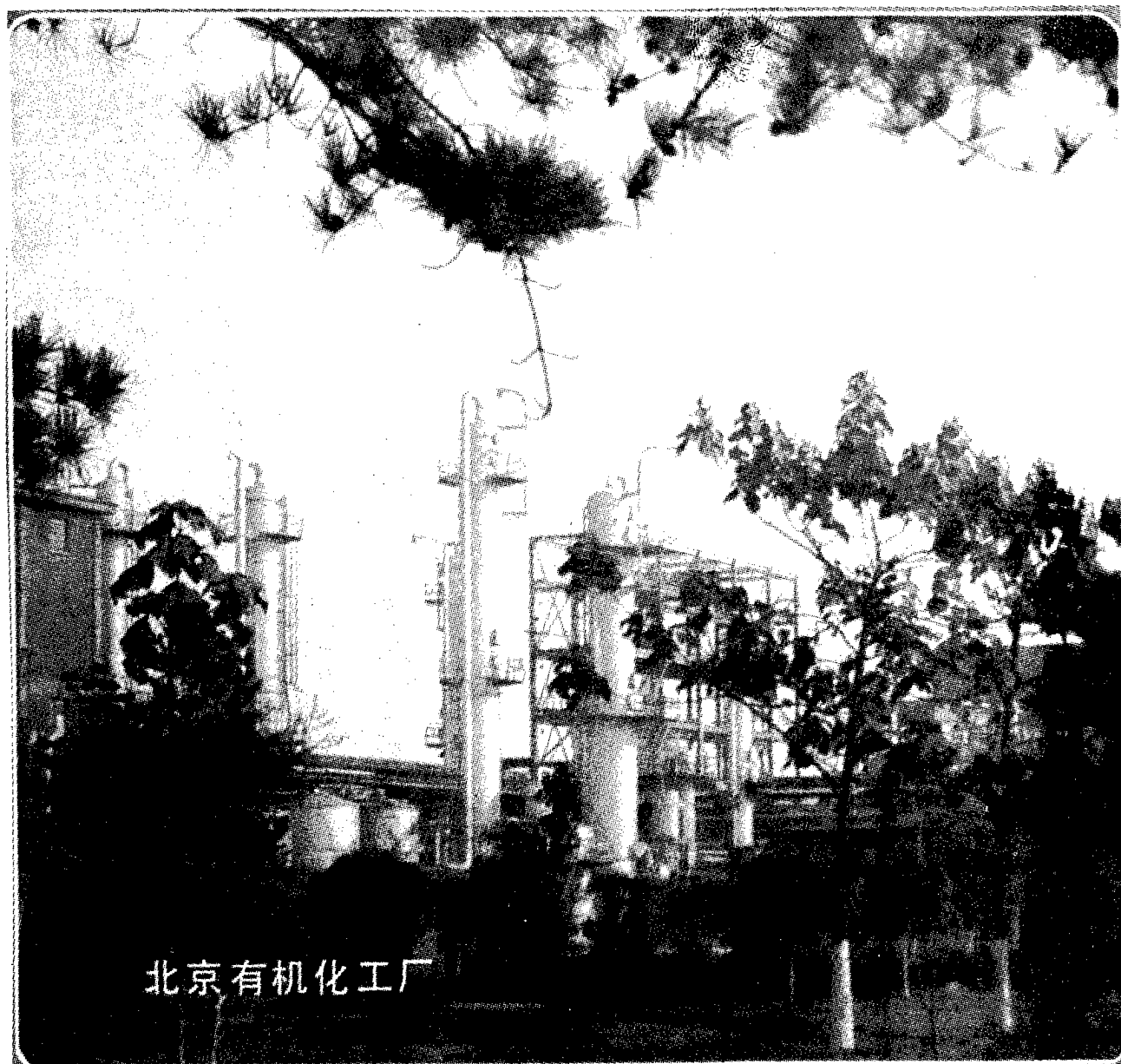


Fig. 5 View of the Beijing Organic Chemicals Plant which has an annual output capacity of 20,000 tons. Its products include water soluble resin 17-88, 17-99 polyvinyl alcohol, vinyl acetate, and emulsion [Source: Beijing ZHONGGUO ZHILIANG GUANLI [QUALITY CONTROL IN CHINA] in Chinese No 1, 1984, frontcover

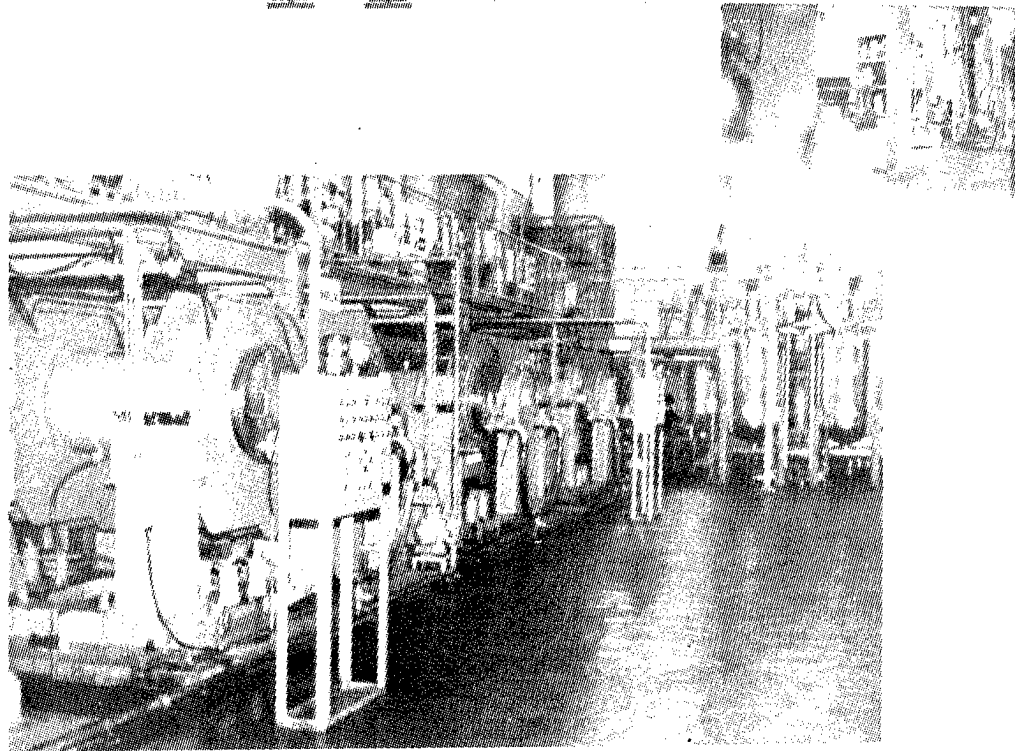


Fig. 6 A section of China's first aquadag production line installed at the Nanshu Graphite Mine in Shandong Province. The production line, which was imported from Japan, turns out aquadag for making color TV tubes.  
 [Source: Beijing ZHONGGUO JIANCAI [CHINA BUILDING MATERIALS] in Chinese No 6, 1983 inside backcover]

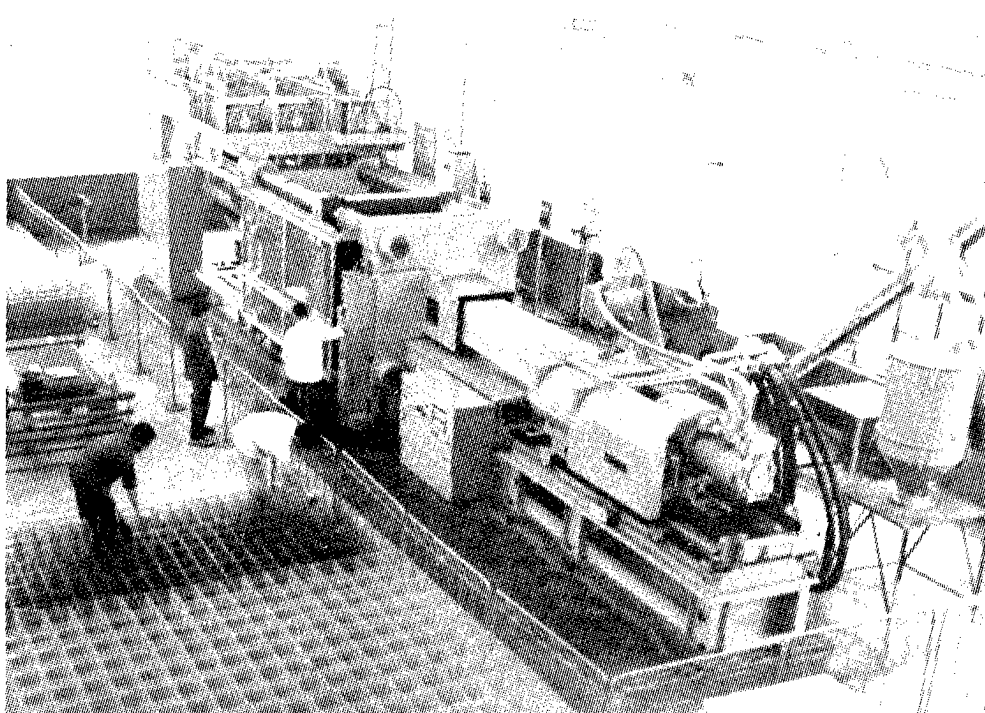


Fig. 7 Photograph of a production line for plastic battery jars at the Chongqing Storage Battery Plant in Sichuan  
 [Source: Hong Kong ZHONGGUO JIXIE [CHINA MACHINERY] in Chinese and English No 1, 1984 p 38]



Fig. 8 Assembly shop of Branch Plant No 18 of the Sichuan General Instrument and Meter Plant in Chongqing, Sichuan  
[Source: Hong Kong ZHONGGUO JIXIE [CHINA MACHINERY] in Chinese and English No 1, 1984 p 23]

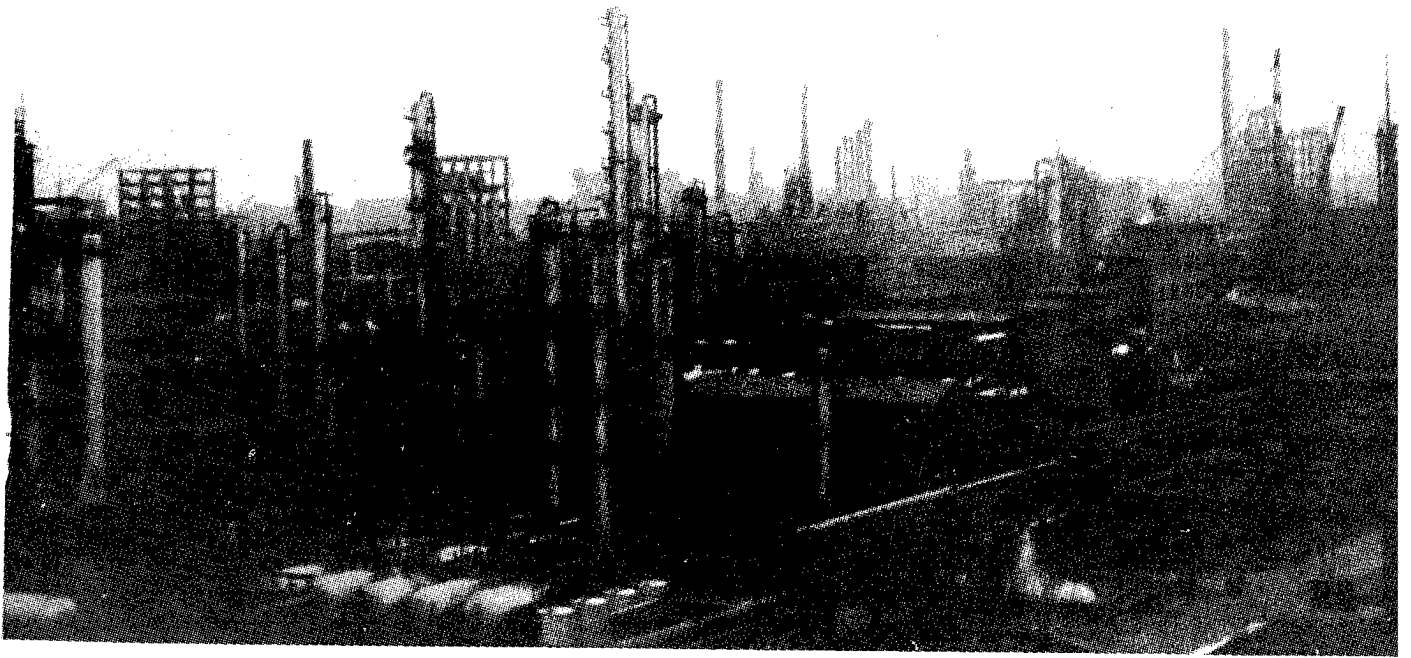


Fig. 9 Sectional view of a plant subordinate to the China Petrochemical Corporation

[Source: Lanzhou HECHENG XIANGJIAO GONGYE [SYNTHETIC RUBBER INDUSTRY] in Chinese No 1, 1984, backcover]

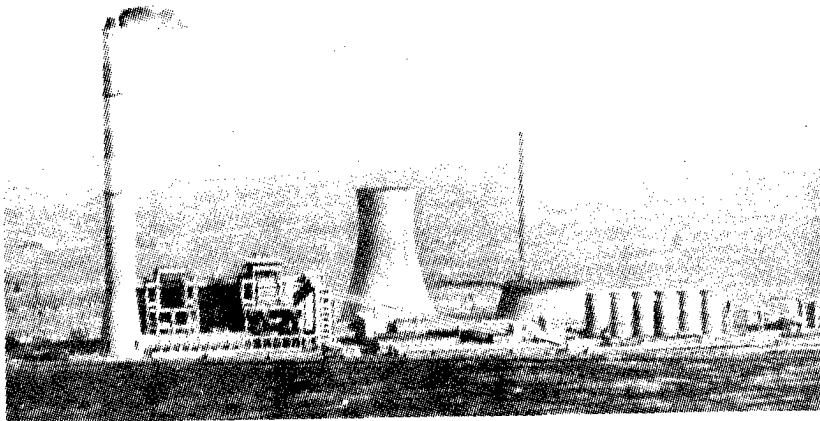


Fig. 10 An exterior view of the Qinling Power Plant in Shaanxi Province  
[Source: Beijing BEIJING ZHOUBAO [BEIJING REVIEW] in English No 8, 20 Feb 84, inside frontcover]

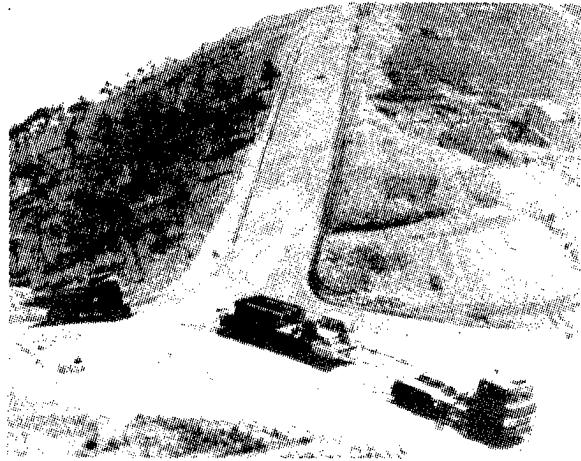


Fig. 11 A section of the Hanyang Special-type Automobile Manufacturing Plant's testing ground  
[Source: Changchun QICHE JISHU [AUTOMOBILE TECHNOLOGY] in Chinese No 12, 1984 inside frontcover]

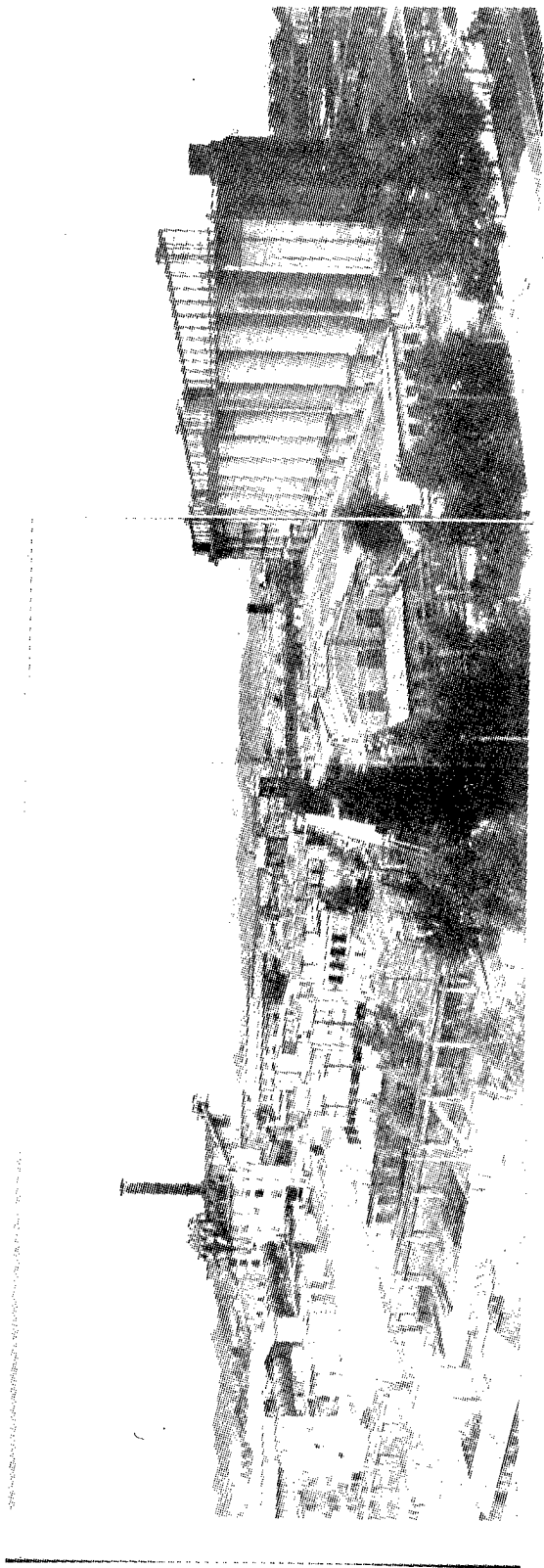


Fig. 12 A sectional view of the Guizhou Aluminum Plant which is undergoing renovation and expansion  
[Source: Guiyang GUIZHOU HUABAO [GUIZHOU PICTORIAL] in Chinese No 1, 1984 pp 2-3]

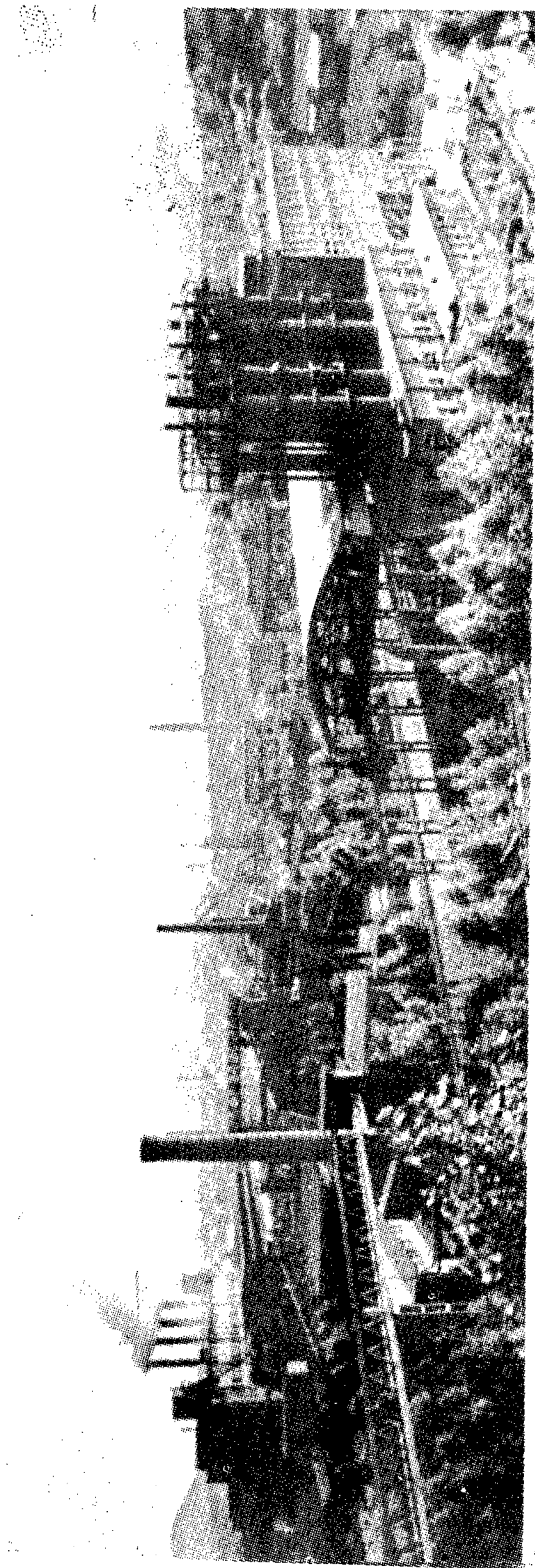


Fig. 13 A section of the Zunyi Iron Alloy Plant in Guizhou Province. In 1982 this plant for the first time broke the iron alloy output barrier of 50,000 tons and realized a profit of 9 million yuan

[Source: Guiyang GUIZHOU HUABAO [GUIZHOU PICTORIAL] in Chinese No 1, 1984 p 31]

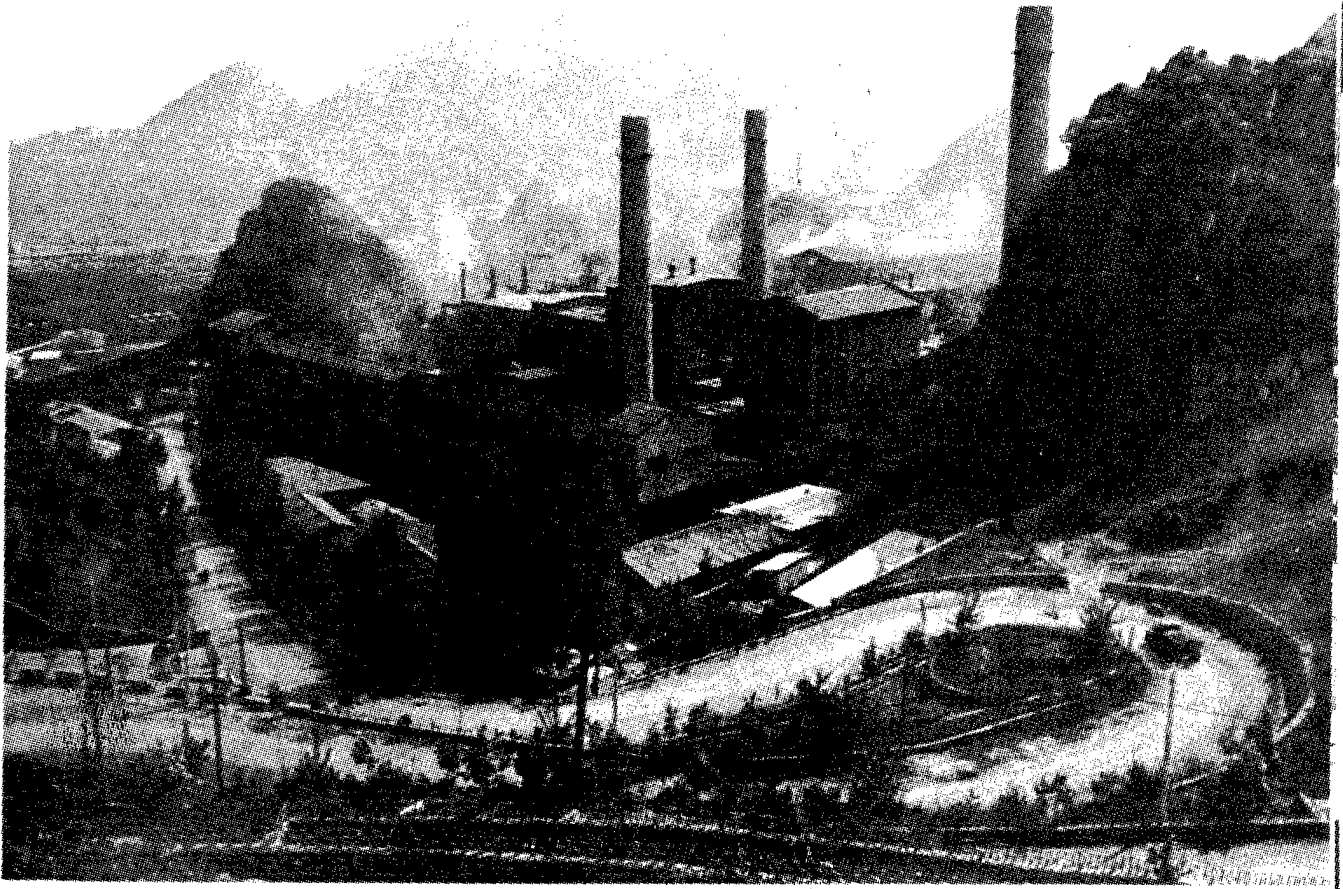


Fig. 14 View of the Shuicheng Iron and Steel Mill in Guizhou, which in 1982 started to become a profitable enterprise following a period of readjustment. Prior to 1982, the mill had been operating at a loss of 1 million yuan a year. In 1982, it realized a profit of 2.2 million yuan. [Source: Guiyang GUIZHOU HUABAO [GUIZHOU PICTORIAL] in Chinese No 6, 1983 p 23]

CSO: 4013/121

END