



1. The Background of ZhongWang Group

Zhongwang was founded in 1993 with the head office in Liaoning Province. After 19 years continuously growing, the annual production capacity can reach 800,000 tonnes. The total assets of ZhongWang is 8.91billion with more than 10,000 employee including 1,120 technical people above middle level. The branch offices are also distributed in US, Germany and Russian. Our products enjoy on excellent reputation for their superior quality, our product is not only popular in China, they are also sold to overseas markets including Europe, North America and Australia.

2. Founder and Director

Name	Title
Mr. Liu Zhongtian	Founder, Chairman, President and Executive Director
Mr. Lu Changqing	Vice President, Executive Director and Joint Company Secretary
Mr. Chen Yan	Vice President and Executive Director
Ms. Zhong Hong	Vice President and Executive Director
Mr. Gou Xihui	Vice President and Executive Director
Mr. Wong Chun Wa	Independent Non-executive Director
Mr. Wen Xianjun	Independent Non-executive Director
Mr. Shi Ketong	Independent Non-executive Director
Mr. Lo Wa Kei, Roy	Independent Non-executive Director
Mr. Cheung Lap Kei, Vincent	Chief Financial Officer and Joint Company Secretary



3. The Production Range

Our company can extrude almost all types of products. It is very hard to detail the product range, the Aluminium Extrusion from our company are widely used in the transportation, Machinery manufacturing, electrical power engineering field. The unique production is large cross section due to we now have three world largest extrusion press- 125MN horizontal oil-driven dual-action. The largest cast billet is 582mm in diameter and 7.5m in length.

4. The Company Equipment:

1) Finishing facilities:

The finishing Capacity is on the attached files and the equipment is introduced as follow:

The company now owns 66 extruding production lines, 6 anodizing lines, 4 electrophoretic coating lines imported from Japan, 7 vertical high voltage electrostatic powder coating lines imported from Italy, 1 Italian made high voltage electrostatic fluorocarbon coating line, 1 horizontal high voltage fluorocarbon coating line, 1 horizontal high voltage fluorocarbon coating line imported from Randburg Company of Janpan, 2 horizontal high voltage electrostatic powder coating lines imported from ITW Gema company of Switzerland, 5 thermal-breaking composite aluminium profile production lines from Switzerland, 3 wood-effect aluminium profile production lines from Italy, 2 aluminium profile reciprocating polishing machines from Spain and 5 mechanical sand-blasting machines.

2) Extrusion Press:

The company is currently operating extrusion production lines with extrusion presses of 880 metric tones, 1250,1800, 2000, 2750, 3150, 3600, 5500, 7500,9000,12500, 12500 metric tons horizontal oiled – driven dual –action extrusion press is currently the large and most advanced of its type in the world. Enabling us to provide profiles with very large and complex cross sections. To raise the reliability of the high precision industrial aluminum profiles production, the company has also installed 16.5 vertical



solutions heat-treat furnaces and other advanced auxiliary equipment.

3) Die R&D:

The company has an independent Die R&D center. The company is able to ensure that the dies will perform to the highest standards and enabling us to meet all high quality precision extrusion demands.

The company also has a province certified R&D center with specializes in the research and development of nonferrous light materials proceeding test and processing technology. This R&D center with its global experts and highly skilled technical team and its most advanced technical equipment is able to meet the international standards for design and production.

4) Casting Equipment:

The company has spend a lot of money in importing the latest casting equipment ALUTECH company of Canada, NANO METEC company of korea, these equipment can produce all kinds of aluminium alloy cast rod from 1xxx to 8xxx with diameter of 582mm and length of 7.5m as the maximum, and the annual capacity is able to reach 800,000 tons; ZhongWang aluminium alloy cast rod can increase the extrusion speed and surface quality of aluminium profiles for its thin macrocrystal, low contents of hydrogen and high cleanliness and catch the international level.

5) Certification:

Mills manufacturing approvals is on the attached files, to see more certification, please kindly visit link

<http://www.zhongwang.com/en/index.php?ctl=aboutus&act=index&cid=70&inoid=75>

The company has accomplished many certifications including ISO-9001 international quality management and ISO-14001 environmental management standards. In 2001, the company was recognized as one of the “five hundred strongest china enterprises” now it ranks 262, in 2003 the company was invited to join the us metal service centre institute and at that time was the first Chinese manufacturer ever invited by the institute. In 2005, the company was certified by the Ministry of China railways as qualified supplier for freight cargo. And passenger carriage extrusion profiles. The



company also obtained quality certifications from a number of foreign and domestic vehicle manufactures in the same year and was awarded IRIS certification by Det Norske veritas one of leading classification societies in the world. On May 8, 2009 china zhongwang holdings limited was listed on the main Board of the Hong-kong stock exchange.

The company also obtained the IRIS (International Railway Industry Standard) certification in 2010. It means we can extrude railway sideway panels and do some bending, also there will be joint points between panels and we use robots to connect together which form subway body. The company has also been accredited by Det Norske Veritas (for boat and ships), one of the leading classification societies in the world.

Other certifications include:

- ISO3834 INTERNATIONAL WELDING FABRICATOR CERTIFICATION
- THE 7xxx HARD ALUMINIUM ALLOY 582mm ROUND INGOT
- QUALICOAT LICENCE CERTIFICATE

6) Fabrication capability

For the Fabrication, we are capable to do the extrusion fabrication with cutting, punching, deburring, milling, machining, bending, or welding and assembly. The company was certified by Ministry of China Railways as qualified supplier for freight cargo and passenger carriage extrusion. We have also established business with many world famous companies including U.S.BOE-ING, FedEX, Siemens etc. Deburring is a process for removing small chips and any remaining burrs on the extrusion cut. The most common method of our company is mechanical using a brush or a grinding machine.

Abrasive tumbling, where fragments are removed by friction using circulating stones, is a suitable method for deburring smaller and medium large parts.

Milling machines for fabrication of aluminium have larger teeth pitches than equivalent tools for steel and therefore a more spacious groove for chips. The cutting saw of our



company have a high cutting speed is required for a good result. The milling diameter will be at least 20% larger than the width of the surface being treated when surface milling with an end mill. 2/3 of the surface will be moved against and 1/3 with the cutting direction during milling.

As with most machining, drilling is carried out at a high speed and sharp drilling machine to reduce the pressure required and obtain a better result.

Draw bending is the most commonly used bending method by company. It is suitable for tight radii and has a high degree of repeatability. Using an adjustable clamping jaw, the work piece is fixed against a rotating die. The clamping jaw and the tool are shaped to reproduce the profile's cross section.

Roller bending is used for forming large radii in the work piece. The work piece is rolled between two drive rollers and a pressure roller. The shape presented by the rollers corresponds to the profile's cross section.

The most common way of joining aluminium is welding. The welding equipment is as following;

Welding machines/Equipment:

Quantity	Type of machine	Model / performance data
45	Fronius Welding Machine	TPS-5000/15.1 KVA
21	OTC Welding Machine /OTC	AEP-300
2	OTC Welding Machine /OTC	AEP-500
1	Dual head gantry MIG welder	LMHJ-2/32KVA
5	IGM dual head gantry MIG welder	RTI370S/95KVA

5. The Future of ZhongWang

Looking ahead we will further strengthen our position as the leading industrial



LiaoNing ZhongWang Group CO. , LTD

aluminium profile manufacturer in the world, in Chinese “zhong” means loyalty, and “wang” means prosperity and together zhongwang means that its loyal employees will build a prosperous future not just for the company but for its employees and in turn contribute to a more prosperous society .Today in the face of a competitive world Liaoning zhongwang group LTD will rise further in the pursuit of excellence and continue to provide leadership and direction for a more prosperity future.