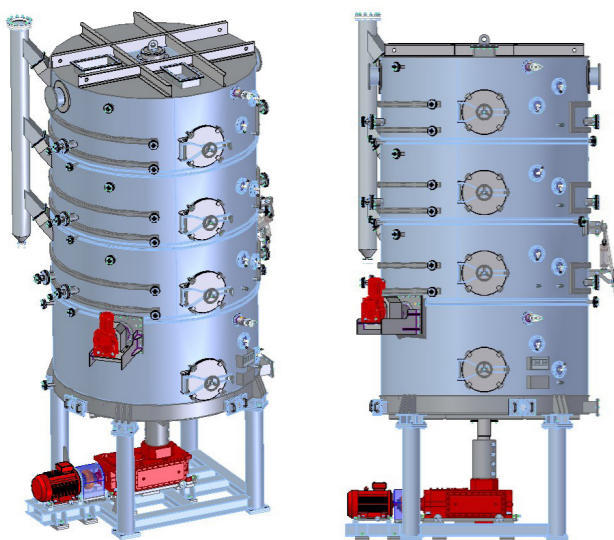


Myande Inactivating and Drying Solutions for Fermentation Applications

1. Inactivating machine

Myande's inactivating machine is a specially designed for sterilizing, inactivating, and cooking raw materials in animal feed plants. With unique design, it effectively kills bacteria carried in various raw materials such as grains and soybean hull. Its working principle is based on findings of research of epidemiological studies that digestive tract viruses, different from blood-borne viruses, are generally "heat-sensitive" and can be easily inactivated at high temperatures. Myande inactivating machine is supplied with a cooling-drying deck which ensures that the processed materials reach the moisture and temperature requirements of the next process.



2. Inactivating Dryer

Myande's inactivating dryer is especially designed for the sterilization and inactivation of soybean hulls and other by-products of oils & fats processing and food processing factories. It adopts special structure and reasonable sterilization process to increase the material temperature to 90~100°C and humidity to 85%~95% (values depend on different materials), and keep the materials at this condition for 10~30 minutes so that the processed materials do not contain any harmful bacteria and the treatment of bean hulls and impurities meet the safety requirements. The dryer is also equipped with a cooling-drying layer to ensure the processed material reaches the required moisture and temperature.

(Translated by Wu Yunzhu)



Yangzhou Overview (Part One) Myande proudly calls Yangzhou "Home"

Geographical location: Yangzhou is located in the middle of Jiangsu Province where the Yangtze River and the Beijing-Hangzhou Grand Canal converge. It is within "Yangtze Delta Region", one of the most dynamic economic urban conglomerates in China.

Topography and climate: Being in the subtropical humid climate, Yangzhou has four distinct seasons with mild air temperatures. The topography is characterized with the alluvial plain of the Yangtze Delta with a dense network of rivers and lakes and a beach line of 80km along the Yangtze River. Yangzhou boasts rich resources, and

is abundant in the production of foods, cotton, edible oil and aquatic products. It also boasts mineral resources such as oil, natural gas, underground hot spring and ores.



激情豪迈 *Enthusiasm*
精细为豆 *Precision*
诚信是德 *Honesty*

Quality Creates Future

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Glimpse of Myande

An English Version of
迈安德之窗

Issued by 迈安德集团
MYANDE GROUP

Oils&Fats Equipment and Technology
Solid-state Fermentation Equipment and Technology
Starch&Derivatives Equipment and Technology
Evaporation Crystallization Equipment and Technology

Bi-monthly Newsletter No. 36 June 2019

Myande Flaker Awarded National Prize

On March 23, 2019, at 8th National Conference of Chinese Cereals and Oils Association (CCOA), Myande's automated flaker was awarded Prize for Science and Technology Development".

Flaker is key equipment in oilseeds preparation process, and its quality directly affects extraction efficiency and the quality of soybean meal. Previously, supply of large scale flakers with capacity of 500t/d was long monopolized by foreign brands in China. Through years of research and development Myande launched MYPG flakers and changed the demand and supply scenario in China. The MYPG series flakers enjoy a number of national patents covering numerous technical features, including anti-flushing device on the roll

end, the roll gap adjusting device and the belt tensioning device. These features have greatly improved the performance of flakers. The flake thickness can reach 0.25-0.35 mm and the daily processing capacity can reach 500T/D.

To ensure the reliability of the flaker, Myande has introduced advanced manufacturing equipment such as five-axis machining center and optimized the intelligent manufacturing production line. Its mechanical property parameters such as noise, vibration, reliability and safety all have reached the international leading level. So far more than 200 units of flakers have been sold and are now running in more than 10 large-scale 5000t/d oil plants and more than 100 oils & fats companies at home and abroad.

(Translated by Wu Yunzhu)

"Top 10 Invention Patent Enterprises" and "Top 100 Industrial Enterprises"

Yangzhou Industrial Development Conference was held on March 18, 2019. Myande Group was awarded "Top 100 Industrial Enterprises of 2018" and "Top 10 Invention Patent Enterprises" in Yangzhou City. With its customer oriented operational philosophy, Myande Group dedicates to scientific

and technological innovation and has obtained a number of high-class intellectual property rights. Currently Myande owns 220 patents, including 42 invention patents. A further 27 invention patents are in the application process.

(Translated by Chen Ting)

Myande to Undertake Complete Production Line of Biological Fermentation Feed

Recently, Shaanxi Yangling First Biotechnology Co., Ltd. and Myande Group Co., Ltd. signed a contract by which Myande will construct a complete production line with annual output 50,000 tons of bio-fermented feed for First Co.

First Co. focuses on microbial fermentation and attaches great importance to product quality and stability. Responding to low-temperature drying requirement raised by First Co., Myande offers customized process design that incorporates a patented live drying solution.

As an emerging core business segment, Myande fermentation engineering has developed into a professional brand in the field of solid-state fermentation in China. With powerful integration capabilities, unique 3D design, diversified customized services and advanced automation control system,

we provide customers with optimized engineering solutions. Myande leads the solid-state fermentation industry towards automation and intelligence. At the same time, Myande has rich experience in solid-state fermentation project implementation and diverse engineering cases, and has established good cooperation with Yihai Kerry, Bunge, Vietnam STI, India VIL, China Textile Group, New Hope, Tongwei Group and other domestic and foreign customers.



400T/D Corn Germ Crushing Line Constructed by Myande Successfully Put into Operation

In March 2019, the SDIC Tieling 400T/D corn germ crushing line built by Myande was completed and successfully commissioned.

Corn germ has unique characteristics, so its processing technology is completely different from other oilseeds. This equipment line is designed to extract oil from corn germ yielded from corn dry de-germination process. Characteristics of corn germ as oilseeds include low purity and high protein. Germ meal, on the other hand has strong tendency of agglomeration and gelatinization in the desolventizing process. Taking these features into full consideration, Myande engineering team developed a highly customized process design that meet guarantees maximum efficiency in producing qualified finished products.

Years of Project Implementation Experience

After 16 years of rapid development, Myande has successively undertaken more than ten corn germ oil processing projects. With proprietary technology based on the characteristics of raw materials and in combination with customer needs, Myande has formed an optimal customized solution that guarantees smooth project implementation and



reliable performance.

Quality Assurance of Core Equipment

The effective flaking process plays a decisive role in oil yield. The new flaking mill independently developed by Myande, incorporating European rolls and other core components, features minimized noise and low vibration. The flake thickness flakes can be easily controlled within 0.30 to 0.35 mm range. PLC automatic control system reduces the dependence on labor and proficiency. Combined with the advanced crushing process, the new flaking mill can significantly reduce the residual oil content in meal.

Myande new horizontal drum rotary cooker has the advantage of 360 degree rotation without dead angle, which truly solves the problem of poor heating effect and high energy consumption, and also reduces power consumption. The cooking time can be adjusted and the discharge temperature can also be adjusted from 75 to 105°C.

Fine 3D Design for Precise Installation

The project adopts a full three-dimensional design, which effectively eliminates equipment collision and optimizes equipment layout, operation and maintenance space to the greatest extent. From the installation mode to the assembly mode, the project implementation cycle is shortened while saving unnecessary additional investment in the civil steel structure.

Careful Planning, Strict Implementation

The project adopts the implementation cycle plan to implement project management, with the focus on "improving quality, shortening delivery time and improving efficiency", to solve the problem of cross-operation of projects and ensure the smooth completion of follow-up operation. The equipment are shipped in real-time monitoring, and the actual dynamics are mastered to ensure that the equipment is delivered to the customer in a timely and non-destructive manner.

(Translated by Lu Le)

Successful Start-up of Baotou Tongwei 25,000 TPA Wastewater Concentration Facility

Recently, Baotou Tongwei 25,000 tons per year high-purity crystalline silicon & high-salt wastewater concentration facility constructed by Myande Group was successfully commissioned. The facility has been running smoothly and has produced more than 150 tons of calcium chloride tetrahydrate. The success of this project provided Baotou Tongwei an effective solution to its chronic headache of wastewater treatment.

High-purity polysilicon is the basic raw material for

the electronics industry and the solar photovoltaic industry. It is not likely to be replaced in the next 50 years. Under the support of the central government's vigorous promotion of new energy policies, numbers of upstream and downstream projects around the photovoltaic industry were quickly established. At the same time, relevant state departments increased their support for technology research and development, technological innovation, and project construction related to the polysilicon industry. In this cooperation with Tongwei

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Group, Myande Group focused on effort with own advantages, successfully implemented the first zero discharge project for wastewater in the polysilicon industry in China. We believe that in the near future, Myande People will persist in and innovate to achieve a qualitative leap in the zero discharge of polysilicon industry wastewater, and contribute to the revitalization of China's energy industry.

(Translated by Chen Ting)



Myande Participated in 2019 VIV Asia Exhibition

The 2019 Asia International Exhibition (VIV Asia 2019) was held at the BITEC Center in Bangkok, Thailand



on March 13, 2019. Myande participated as a professional solid-state fermentation engineering services and equipment supplier committed to providing safer, more energy-saving and intelligent specialized products and services in the field of feedstock fermentation. Myande Group assumes social responsibilities through consistent engineering efforts in fields of antibiotic-free feed, food safety and environment protection. To satisfy the market development needs, Myande Group has developed a series of automated and efficient bio-fermentation equipment, which guarantee stable quality of fermentation products and highly efficient production process. Myande booth attracted a large number of overseas customers during the exhibition.

(Translated by Chen Ting)

Myande Exhibited in 2019 China (Nanning) Feed Industry Exhibition

On April 18, 2019, China (Nanning) Feed Industry Exhibition was held at Nanning International Convention and Exhibition Center. Myande exhibited its advanced solid-state fermentation technology and equipment. China Feed Industry Exhibition is the largest and most influential brand exhibition in the domestic feed industry.

As a professional solid-state fermentation technology and equipment supplier, Myande is committed to providing professional engineering services to customers in the fields of feed ingredient fermentation and sterilization. Myande assumes important social responsibilities in terms of non-antibiotic feed, food safety and environmental protection.

In order to meet the needs of market development, Myande has developed a series of automated and efficient biological fermentation equipment. The production process is automatic, efficient and controllable, which can fully guarantee the stable quality of the fermentation products. Responding to different solid-state fermentation processes, from raw material pretreatment to inoculation mixing, from drying to cooling, crushing, and packaging, Myande has a diverse range of solutions to meet customers' requirements.

At the same time, according to different drying needs of customers, we can provide a variety of specialized drying

equipment. Energy-saving drying equipment, such as tube-type dryer, it has advantages of high efficiency, low energy consumption, high drying capacity of single equipment and continuous production. Low-temperature drying equipment, such as flash dryer, fluidized bed and live dryer, they have the advantages of low heating temperature, protection of microbial and metabolite activity, adjustable drying time and continuous production. In addition, energy-saving and low-temperature drying equipment can be combined with each other to achieve the best performance.

(Translated by Lu Le)

