

Soybean Deep Processing

Soya Preparation,Solvent Extraction(White Flake)

Soya Oil Refining

Soya Protein Concentrate

Ref.No.: CMS231025ZV001

25th Oct. 2023



- Since 1976 -

Jining Machinery Design and Research Institute
Shandong Chemsta Machinery Manufacturing Co.,Ltd.

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Contents

I COMPANY PROFILE.....	3
II MAIN PROJECTS CASE.....	14
III CUSTOMER STORY	26
IV BRIEF DESCRIPTION.....	34
V DETAILED DESCRIPTION.....	35

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I Company Profile

Shandong Chemsta Machinery Manufacturing Co., Ltd. is a national high-tech enterprise invested and held by Jining Machinery Design and Research Institute Co., Ltd., integrating scientific research, production, operation and service. There are currently over 110 engineering and technical personnel in various fields, including over 50 senior engineers, 6 applied researchers, 2 young and middle-aged experts with outstanding contributions in Shandong Province, and 1 person enjoying the special allowance of the State Council.

CHEMSTA is specialized in the design and manufacture of large-scale drying equipment, complete set of equipment for vegetable oil production and refining, complete set of equipment for soybean flakes, complete set of equipment for vegetable protein (soybean protein concentrate, soybean protein isolate, cottonseed protein, etc.), complete set of equipment for extraction and fractionation of natural product, complete set of equipment for harmless treatment of livestock and poultry, chemical pressure vessel (GB/ASME), industrial plant design, research and development of electrical automation control system and general machinery equipment, production manufacturing and engineering installation.

We have qualifications in engineering design, pressure vessel (GB/ASME) and pressure pipeline design, manufacturing, installation, mechanical electrical equipment installation, etc., and have passed ISO9001 quality management system certification. Won multiple honorary titles such as "National High-tech Enterprise", "National Contract-abiding Credit Enterprise", National SRDI "Little Giant" Enterprise", Shandong Gazelle Enterprise", "Shandong Specialized, Refinement, Differential, Innovation Small and Medium Enterprise", and "Shandong Single Champion Enterprise in Manufacturing Industry". It has been recognized as the provincial "Grain and Oil Processing Equipment Engineering Technology Research Center", the provincial "Enterprise Technology Center", and the provincial "Industrial Design Center".

In recent years, we have obtained over 110 patent authorizations (6 invention patents) and 13 software copyrights; participated in the formulation of 3 national standards, 5 industry standards and 36 enterprise standards. We undertake 3-5 provincial and above scientific and technological research and development projects annually, with a total of over 60 national, provincial and

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municipal key research and development projects. Most of our product technologies are domestically leading, while some of our product technologies reach international leading level. The products have won a number of scientific and technological awards and honorary titles, among which 7 products such as "Extraction and Application Research of Soybean Protein Concentrate and Intelligent Equipment Research and Development" etc. have won the national new key product certificate; the technology development and industrialization of large-scale intelligent alcohol method production equipment for soybean protein concentration won the first prize of the Science and Technology Award of the China Grain and Oil Society; 54 products such as "Complete Set of Equipment for 800T/D Low Temperature Extraction Process", "Complete Set of Equipment for 30000 T/A SPC Production Line (Alcohol)" and "Complete Set of Equipment for 800T/D Peanut Oil and Peanut Protein Extraction" etc. have won the honorary certificate of provincial scientific and technological awards, 42 products such as "Energy-saving White Flakes Production Technology and Intelligent Equipment" etc. have been awarded the municipal science and technology award certificate.

Our products have been exported to over 50 countries, such as Russia, the United States, Canada, India, Ukraine, Egypt, Vietnam, Pakistan, the Philippines, Thailand, Myanmar, etc., and have been praised by foreign customers, demonstrating the R & D manufacturing strength as a high-quality gold supplier.

Professional Design & Construction**➤ Oils & Fats Project**

- 》 Vegetable Oil Pre-treatment and Pressing Production Line and Complete Set of Equipment
- 》 Oils&Fats Solvent Extraction Production Line and Complete Set of Equipment
- 》 Vegetable Oil Refinery Production Line and Complete Set of Equipment
- 》 Phospholipid Concentrate and Fractionation Production Line and Complete Set of Equipment

➤ Vegetable Protein Project

- 》 Soybean White Flake Production Line and Complete Set of Equipment
- 》 SPC Production Line(alcohol)and Complete Set of Equipment
- 》 SPI Production Line and Complete Set of Equipment
- 》 Peanut Protein, Cottonseed Protein Production Line and Complete Set of Equipment

➤ Factory Auto-control System (SIEMENS PLC+WINCC)**➤ Large-scale Dryer****➤ ASME Pressure Vessel**

Key Technology Advantages

Professional Solution for Oils&Fats Processing Project

Chemsta, with more than 40-year technology experience of oils&fats processing, engages in the research & design, manufacturing, engineering construction service for soybean pretreatment, extraction, refinery, and soybean protein project.

International Perspective - More Advanced Process

Continuously introducing international advanced soybean deep processing technology and innovating local raw material processing technology, the product quality is more suitable for the deep processing of downstream products, improving the yield and quality of downstream products, and meeting the high-end needs of the market and customers.

Rich Engineering and Technical Experience

Multiple successful engineering technology cases have proven that we have gained rich engineering technology experience in deep processing of plant oilseeds and soybeans.

More Energy-Saving and Intelligent

The international advanced energy-saving technology is used to optimize the process plan, and the heat of the system is scientifically and reasonably exchanged and recycled. using the most advanced automatic control technology in the world, the entire production line can be automatically controlled by the computer, which is convenient for production management and stable operation of the production line.

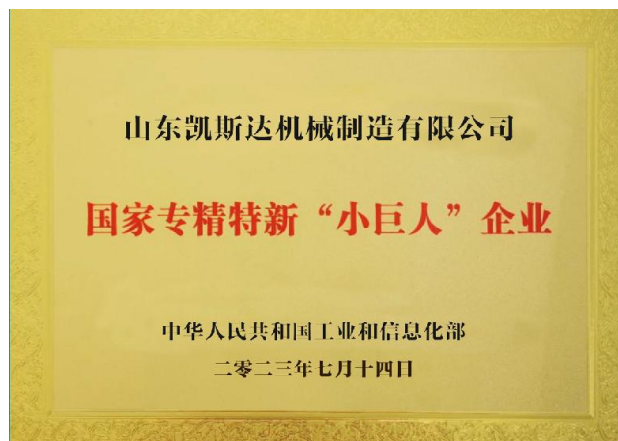
Equipment and After-Sales Service Guarantee

Excellent processing equipment, comprehensive quality assurance system, and sincere service commitment eliminate all worries of customers. "Intersection With Heart, Into Its Long!", CHEMSTA has been awarded the title of "National Contract and Reputation Abiding Enterprise" by the State Administration for Industry and Commerce for many years.

Qualification & Certification



National High-tech Enterprise



National "Specialized Refinement Differential Innovation" Enterprise



Manufacturing Industry Individual Champion Enterprise



Gazelle Enterprise



Oils&Fats Engineering Qualification Certificate



Oils&Fats and Protein Equipment R&D Laboratory

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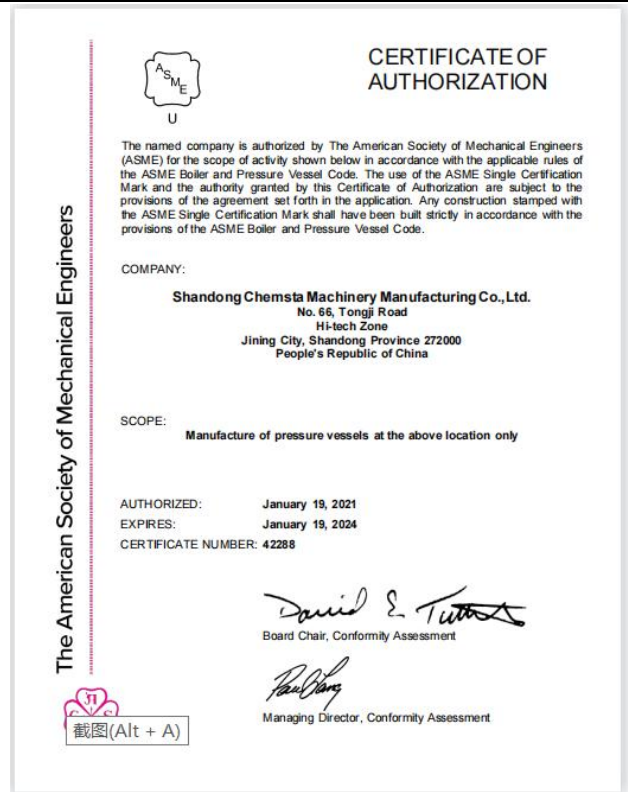
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ISO9001 Quality Management System



America ASME Certificate



Scientific and Technological Progress Award for Soybean Protein Equipment



Scientific and Technological Progress Award for Soybean Protein and Oils&Fats Equipment

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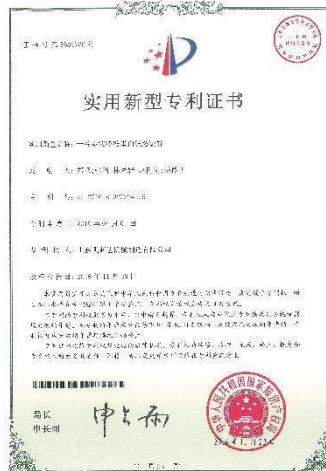
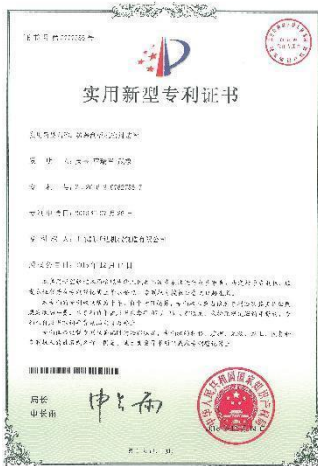
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Patents



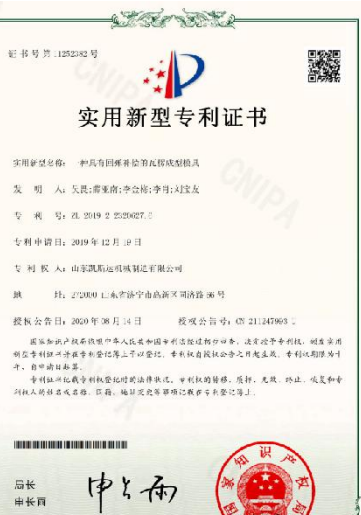
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II 2020-2023

Main Projects

1	Shandong Sinoglory Health Food Co., Ltd.	30,000 Tons One Year SPC Project (Food Grade)
2	Fujian Xinyu Industrial Co.,Ltd.	80,000 Tons One Year SPC Project (Feed Grade)
3	Tianjin Beihe Biology Technology Co.,Ltd.	70,000 Tons One Year SPC Project (Feed Grade)
4	Shandong Wonderful Group	30,000 Tons One Year SPC Project (Food Grade)
5	Tamil Nadu, India	300 T/D Soybean Preparation Project
6	Rajasthan, India	500 T/D Soybean Crushing Project (White Flake)
7	Shandong Guohong Biology Technology Co.,Ltd.	500 T/D Soybean Crushing Project (White Flake)
8	Shandong Jiahua Health Product Co.,Ltd.	600 T/D Soybean Crushing Project (White Flake)
9	Heilongjiang Hongzheng Soybean Co.,Ltd.	600 T/D Soybean White Flake & High Protein Soybean Meal Production Line Project
10	Russia	500 T/D Sunflower Oil Refining & Edible Soybean Phospholipid Concentrate Project
11	Chengdu Xinxing Grain and Oil.,Ltd	700 T/D Corn Germ and Rapeseed oil extraction production line, 800 T/D Soybean Crushing Project
12	Luhua Group(Zhengyang)	1000 T/D Peanut Oil Extraction Project 200 T/D Peanut Oil Refining Project
13	Luhua Group(Xinyi)	1000 T/D Peanut Oil Extraction Project 200 T/D Peanut Oil Refining Project
14	Luhua Group(Laiyang)	1000 T/D Peanut Oil Extraction Project 200 T/D Peanut Oil Refining Project
15	Egypt	500 T/D Soybean Low Temperature Pressing & Refining
16	Yutai Oils&Fats Company	500 T/D Peanut Cake Solvent Extraction Project
17	Yantai Ou Guo Peanut Oil Company	100 TPD Peanut Protein Project

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Main Project Case (SPI/SPC & Soya White Flake) in Recent Years		
1	Russia Amur Agricultural Associated Enterprise	10,000 Tons One Year SPI Project
2	Shandong Zhongyang Biotechnology Co.,Ltd	60,000 Tons One Year SPC Project
3	Fujian Changde Protein Science and Technology Co.,Ltd	40,000 Tons One Year SPC Project
4	Shandong Changrun Biotechnology Co.,Ltd	30,000 Tons One Year SPC Project
5	Shandong Wonderful Industrial Group Co.,Ltd	20,000 Tons One Year SPC Project
6	Jilin Fengzheng Soybean Food Co., Ltd.	10,000 Tons One Year SPC Project
7	Heilongjiang Yanglin Oil Group	10,000 Tons One Year SPC Project
8	Shandong Yuwang Vegetable Protein Co.,Ltd.	500 Tons One Day Low-temperature Soybean Meal Production Line Project
9	Harbin Yuwang Vegetable Protein Co.,Ltd.	500 Tons One Day Low-temperature Soybean Meal Production Line Project
10	Shandong Lanshan Group	800 Tons One Day Low-temperature Soybean Meal Production Line Project
11	Shandong Jiahua Health Product Co.,Ltd.	450 Tons One Day Low-temperature Soybean Meal Production Line Project
12	Shandong Ruixiang Biotechnology Co., Ltd.	500 Tons One Day Low-temperature Soybean Meal Production Line Project 100 Tons One Day Refining (Primary Oil), Phospholipid Concentration Project
13	Shandong Lanshan Group	500 Tons One Day Low-temperature Soybean Meal Production Line Project
14	Jiangsu Yongyou Food Science & Technology Co.,Ltd	600 Tons One Day Low-temperature Soybean Meal (Soy Sauce Meal) Production Line, 200 Tons One Day Refining (Primary Oil), Phospholipid Concentration Project

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15	Russia Amur Agricultural Associated Enterprise	800 Tons One Day Low-temperature Soybean Meal Production Line Project 100 Tons One Day Refining (Primary Oil) 500 Tons One Day Soybean Pre-Treatment and Extraction Project 100 Tons One Day Low-temperature Soybean Meal Production Line Project 50 t/d Full Fat Soya Flour Project
16	Shandong Sanwei Oils & Fats Group	300 Tons One Day Low-temperature Soybean Meal Production Line Project
17	Hubei Yunmeng Longyun Protein Food Co.,Ltd.	200 Tons One Day Low-temperature Soybean Meal Production Line Project

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Oils&Fats Project (Parts of Customer Case) (Soybean/Sunflower/Peanut/Rape seed/Corn Germ/Coconut etc.)		
1	菲律宾 Philippines	200 吨/天 椰饼浸出车间成套设备 200t/d Coconut Cake Extraction Workshop Complete Set of Equipment
2	越南-QMC 股份公司 Vietnam, QMC Company	200 吨/天 连续大豆一级炼油车间; 15 吨/天 湿磷脂浓缩车间 200 t/d Soybean Refining Production Line 15t/d Soybean Phospholipid Concentrate Production Line
3	埃及 Egypt	240t/d 大豆压榨、精炼项目 240t/d Soybean Crushing & Refining Production Line
4	印度 India	500t/d 大豆低温项目 500t/d Soybean Crushing Production Line
5	越南 Vietnam	谷氨酸结晶项目 Glutamic Acid Crystallization Project
6	俄罗斯 Russia	750t/d 大豆低温预处理脱皮项目 750t/d Soybean Low Temperature Pre-treatment & Dehulling Production Line
7	俄罗斯 Russia	250t/d 葵花籽浸出项目 250t/d Sunflower Oil Solvent Extraction Production Line
8	乌克兰 Ukraine	200 吨/天葵花籽饼浸出生产线项目 200 t/d Sunflower Seed Cake Extraction Production Line Project
9	山东嘉冠粮油工业集团有限公司 Shandong Jiaguan Grain & Oil Industry Group Co.,Ltd	3000 吨/天 大豆膨化料浸出生产线项目 3000 t/d Soybean Expanded Feed Extraction Production Line Project
10	山东省嘉祥县嘉冠油脂化工有限公司 Shandong Jiexiang County Jiaguan Oils&Fats Chemical Co.,Ltd	2000 吨/天 大豆膨化浸出生产线项目 2000t/d Soybean Expansion and Extraction Production Line Project
11	黑龙江依安黄淮公司 Heilongjiang Yian Huanghuai Company	1200 吨/天 大豆生产线成套设备 1200t/d Soybean Production Line and Complete Set of Equipment
12	黑龙江金谷农业科技发展有限公司 Heilongjiang Jingu Agricultural Science and Technology Development Co.,Ltd	1000 吨/天 大豆膨化生产线项目; 800 吨/天 大豆胚片生产线项目; 100 吨/天 大豆粕库项目; 200 吨/天 大豆油四级炼油生产线项目 1000t/d Soybean Expanding Production line Project;800t/d Soybean Flakes Production Line Peoject;100t/d Soybean Meal Storehouse Project;200t/d Soybean Forth-grade Pressing Line Project
13	黑龙江凯邦大豆加工有限公司(鸡东) Heilongjiang Kaibang Soybean Processing Co.,Ltd(Jidong)	1000 吨/天 大豆成套生产线项目 1000t/d Soybean Crushing Production Line and Complete Set of Equipment

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14	庆安阳达大豆加工有限公司(庆安) Qingan Yangda Soybean Processing Co.,Ltd(Qingan)	1000 吨/天 大豆成套生产线项目 1000t/d Soybean Crushing Production Line and Complete Set of Equipment
15	黑河孙吴恒大非转基因压榨大豆油有限公司 Heihe Sunwu Evergrande Non-GM Squeezed Soybean Oil Co.,Ltd	1000 吨/天 大豆榨油生产线项目、100 吨/天 大豆压榨油精炼一级油生产线项目 1000 t/d Soybean Pressing Production Line And 100 t/d First-grade Soybean Oil Pressing And Refinery Production Line Project
16	绥化恒大非转基因压榨大豆油有限公司 Suihua Evergrande Non-GM Squeezed Soybean Oil Co.,Ltd	1000 吨/天 大豆榨油生产线项目、100 吨/天 大豆压榨油精炼一级油生产线项目 1000 t/d Soybean Crushing Production Line And 100 t/d First-grade Soybean Oil Pressing And Refinery Production Line Project
17	夏津津华集团有限公司 Xiajin Jinhua Group Co.,Ltd	1000 吨/天 大豆脱皮膨化设备 1000t/d Soybean Crushing Project
18	黑龙江阳霖油脂集团 Heilongjiang Yanglin Oils&Fats Group	1000 吨/天 大豆生产线成套设备 1000t/d Soybean Crushing Production Line and Complete Set of Equipment
19	黑龙江联凯大豆加工有限公司 Heilongjiang Liankai Soybean Process Co.,Ltd	1000 吨/天 大豆浸出生产线成套设备; 200 吨/天大豆油精炼生产线项目 1000t/d Soybean Extraction Production Line and Set of Equipment;200t/d Soybean Oil Refinery Production Line Project
20	国家粮食储备局西安油脂科学研究设计院 State Bureau of Grain Reserve Xi'an Oils&Fats Scientific Research and Design Institute	500 吨/天 花生仁综合利用项目 500t/d Peanut Oil & Multi-purpose Project
21	菏泽瑞丰粮油公司 Heze Ruifeng Grain&Oil Company	650 吨/天 大豆脱皮生产线改造项目 650t/d Soybean Crushing Production Line
22	庆丰集团克山昆丰农业生产资料有限公司 Qingfeng Group Keshankunfeng Agricultural Means of Production Co.,Ltd	600 吨/天 大豆浸出生产线项目 600t/d Soybean Crushing & Extraction Project
23	黑龙江明达油脂开发公司 Heilongjiang Mingda Oils&Fats Development Company	500 吨/天 大豆预处理、浸出、粉碎打包生产线项目 500t/d Soybean Crushing (Pretreatment、Extraction、Meal Crushing Packing) Production Line Project
24	山东天力干燥股份有限公司 Shandong Tianli Co.,Ltd	100 吨/天 大豆油精炼生产线项目 100 t/d Soybean Oil Refining Production Line Project
25	泗水县鸿远油脂有限公司 Sishui Hongyuan Oil & Fat Co.,Ltd	150 吨/天 大豆浸出生产线项目 150 t/d Soybean Extraction Production Line Project
26	常熟市速腾贸易有限公司	100 吨/天 葵花籽饼浸出生产线项目

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	Changshu Suteng Trade Co.,Ltd	100 t/d Sunflower Seed Cake Extraction Production Line Project
27		
28	青岛源涛饲料有限公司 Qingdao Yuantao Feed Co.,Ltd	400 吨/天 花生饼浸出生产线项目 400 t/d Peanut Cake Extraction Production Line Project
29	双鸭山恒大非转基因压榨大豆油有限公司 Shuangyashan Evergrande Non-GM Squeezed Soybean Oil Co.,Ltd	100 吨/天 大豆榨油生产线项目及 30 吨/天 大豆压榨油精炼一级油生产线项目 100 t/d Soybean Pressing Production Line And 30 t/d First-grade Soybean Oil Refinery Production Line Project
30	临沂市慧泽源油脂有限公司 Linyi Huizeyuan Oil & Fat Co.,Ltd	300 吨/天 大豆浸出生产线项目 300 t/d soybean Extraction Production Line Project
31	邯郸市创大油脂有限公司 Handan City Chuangda Oils&Fats Co.,Ltd	100 吨/天 大豆浸出车间内部分设备 100t/d Part Equipment of the Soybean Extraction Workshop
32	青岛天祥食品集团喜燕植物油有限公司 Qingdao Tianxian Foods Group Xiyan Vegetable Oils Co.,Ltd	100 吨/天 花生饼浸出生产线工程承建项目 100t/d Peanut Cake Production Line Construction Project
33	山东凯立丰生物科技有限公司 Shandong Kailifeng Biotechnology Co.,Ltd	260 吨/天 花生加工项目,浸出、精炼车间 260t/d Peanut Processing Project, Extraction、Refinery Workshop
34	云梦县盛凡生物科技有限公司 Yunmeng County Biotechnology Co.,Ltd	100 吨/天 低温脱溶浸出车间 100t/d Low-temperature Desolvation and Extraction Workshop
35	武安市福瑞康油脂有限公司 Wuan Furuikang Oils&Fats Co.,Ltd	120 吨/天 棉籽预榨、浸出、炼油设备 120 t/d Cottonseed Pre-pressing、Extraction、Oil Refinery Equipment
36	山东兴泉油脂有限公司 Shandong Xingquan Oils&Fats Co.,Ltd	150 吨/天 大豆浸出车间及外围 150t/d Soybean Extraction Workshop and Periphery
37	山东满江鸿花生科技有限公司 Shandong Manjianghong Peanut Technology Oils&Fats Co.,Ltd	150 吨/天 花生加工项目配套浸出、精炼车间 150t/d Peanut Processing Project Complete Set of Equipment、Refinery Workshop
38	山东三维油脂集团有限公司 Shandong Sanwei Oils&Fats Group Co.,Ltd	120 吨/天 大豆膨化生产线项目 120t/d Soybean Expanding Production Line Project
39	郓城县龙泉油脂有限公司 Yuncheng County Longquan Oils&Fats Co.,Ltd	80 吨/天 棉籽饼浸出生产线项目 80t/d Cottonseed Extraction Production Line Project
40	新疆鑫立植物蛋白科技有限公司 Xinjiang Xinli Vegetable Protein Technology Co.,Ltd	400 吨/天 棉仁膨化料浸出车间 400t/d Cottonseed Expanding Material Extraction Workshop
41	曲阜良友工贸有限公司	200 吨/天 玉米胚芽饼浸出车间

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	Qufu Liangyou Industry and Trade Co.,Ltd	200t/d Corn Germ Cake Extraction Workshop
42	山东龙大植物油有限公司 Shandong Longda Vegetable Oils Co.,Ltd	花生饼浸出车间改造 Peanut Cake Extraction Workshop Transformation
43	山东光大绿源食品科技有限公司 Shandong Guangda Lvyuan Food Science and Technology Co.,Ltd	100 吨/天 棉饼浸出及外围及预处理车间项目 100t/d Cotton Cake Extraction and Periphery and Pretreatment Workshop Project
44	廊坊冠霖奥斯油脂有限公司 Langfang Guanlinaosi Oils&Fats Co.,Ltd	100 吨/天 一级大豆油连续精炼车间成套设备 100t/d First-grade Soybean Oil Continuous Refinery Workshop and Complete Set of Equipment
45	青岛青大物产股份有限公司 Qingdao Qingda Productions Corporate Enterprise	50 吨/天 辣椒颗粒加工生产线 50t/d Pepper Particles Production Line
46	新疆冀源生物科技有限公司 Xinjiang Jiyuan Biotechnology Co.,Ltd	50 吨/天 天然色素提纯项目 50t/d Natural Plant Pigment Extraction Project
47	青岛青大物产股份有限公司 Qingdao Qingda Productions Corporate Enterprise	30 吨/天 辣椒颗粒浸提生产线改造 30/d Pepper Particles Extraction and Fractionation Production Line Transformation
48	嘉祥县南武山 Jiaxiang County Nanwushan East Village	50 吨/天 棉籽浸出生产线项目 50t/d Cottonseed Extraction Production Line Project
49	山东三维油脂集团有限公司 Shandong Sanwei Oils&Fats Group Co.,Ltd	300 吨/天 大豆低温粕生产线、2 万吨/年浓缩蛋白生产线 300t/d Low-temperature Soybean Meal Production Line 、 20000t/a Protein Concentrate Production Line
50	山东金日植物油有限公司 Shandong Jinri Vegetable Oils Co.,Ltd	150 吨/天 大豆浸出车间设备工程 150t/d Soybean Extraction Workshop Equipment Peoject
51	黑龙江龙江福粮油有限公司 Heilongjiang Longjiang Fuliangyou Co.,Ltd	大豆预处理浸出两车间改造工程 Soybean Pretreatment Extraction Workshop Transformation Project
52	山东龙大植物油有限公司 Shandong Longda Vegetable Oils Co.,Ltd	3 吨/天 浓缩磷脂生产线项目 3t/d Phospholipid Concentrate Production Line Project
53	开封龙大植物油有限公司 Kaifeng Longda Vegetable Oils Co.,Ltd	2 吨/天 浓缩磷脂生产线项目 2t/d Phospholipid Concentrate Production Line Project
54	山东龙大植物油有限公司 Shandong Longda Vegetable Oils Co.,Ltd	3 吨/天 浓缩磷脂制卵磷脂生产线项目 3t/d Phospholipid Concentrate Make Lecithin Production Line Project
55	济宁华正油脂公司 Jining Huazheng Oils&Fats Company	200 吨/天 大豆预处理车间脱皮工段 200t/d Soybean Pretreatment Production Line
56	莒南县广润食品有限公司 Junan County Guangrun Foodstuffs Co.,Ltd	80 吨/天 花生浸出车间 80t/d Peanut Extraction Workshop
57	莒南县联丰粮油食品有限公司 Junan County Lianfeng Grains,Oils and	80 吨/天 大豆浸出车间 80t/d Soybean Extraction Workshop

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	Foodstuffs Co.,Ltd	
58	山东万里香粮油食品有限公司 Shandong Wanlixiang Grains,Oils and Foodstuffs Co.,Ltd	80 吨/天 大豆浸出车间 80t/d Soybean Extraction Workshop
59	山东金日植物油有限公司 Shandong Jinri Vegetable Oils Co.,Ltd	80 吨/天 大豆浸出车间 80t/d Soybean Extraction Workshop
60	乳山县君达粮油有限公司 Rushan County Junda Grains&Oils Co.,Ltd	50 吨/天 大豆浸出车间 50t/d Soybean Extraction Workshop
61	莒南县玉润粮油食品有限公司 Junan County Yurun Grains,Oils and Foodstuffs Co.,Ltd	80 吨/天 花生饼浸出生产线项目 80t/d Peanut Cake Extraction Production Line Project
62	宝清三江油脂有限公司 Baoqing Sanjiang Oils&Fats Co.,Ltd	500 吨/天 大豆预处理、浸出、粕粉碎；100 吨/天 大豆炼油生产线项目；10 吨/天湿磷脂生产线项目 500t/d Soybean Preprocessing、Extraction、Meal Smash Production Line Project;100t/d Soybean Oil Pressing Production Line Project;10t/d Wet Phospholipids Production Line Project
63	中钼集团有限公司 Zhongtian Group Co.,Ltd	500 吨/天 棉（光）籽加工生产线项目 500t/d Cotton (only) seed Processing Production Line Project
64	深州市东方油脂有限公司（向春） Shenzhen City Dongfang Oils&Fats Co.,Ltd(Xiangchun)	200 吨/天 大豆预处理、外围及浸出生产线项目 200t/d Soybean Preprocessing、Peripheral and Extraction Production Line Project
65	锦州华茂粮油工业有限公司 Jinzhou Huamao Grains&Oils Industrial Co.,Ltd	100 吨/天 大豆浸出车间 100t/d Soybean Extraction Workshop
66	高密市新春油脂有限公司 Gaomi City Xinchun Oils&Fats Co.,Ltd	300 吨/天 大豆预处理、浸出生产线项目 300t/d Soybean Preprocessing Extraction Production Line Project
67	黑龙江金谷农业科技发展有限公司 Heilongjiang Jingu Agricultural Science and Technology Development Co.,Ltd	200 吨/天一级大豆油脱色、脱臭线生产线项目 200t/d First-grade Soybean Oil Decoloration、Deodorization Production Line
68	尉犁县中良油脂有限责任公司 Yuli County Zhongliang Oils&Fats Co.,Ltd	300 吨/天 棉籽剥壳预处理项目；200 吨/天棉籽一次浸出生产线项目 300t/d Cottonseed Husking Pretreatment Project;200t/d Cottonseed One Time Extraction Production Line Project
69	秦皇岛广鑫油脂公司 Qinhuangdao Guangxin Oils&Fats Company	150 吨/天 玉米浸出生产线项目 150t/d Corn Extraction Production Line Project
70	鱼台县宝康油脂有限公司 Yutai County Baokang Oils&Fats	50 吨/天 米糠生产成套生产线项目 50t/d Rice Bran Production Line And Complete Set of

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	Co.,Ltd	Equipment
71	宝清县七星泡镇太合油脂厂 Baoqing County Qixingpao Town Taihe Oils&Fats Plant	30 吨/天 米糠生产成套生产线项目 30t/d Rice Bran Production Line And Complete Set of Equipment
72	山东阜丰发酵有限公司 Shandong Fufeng Fermentation Co.,Ltd	150 吨/天 玉米预榨生产线项目 150t/d Corn Preprocessing Production Line Project 100 吨/天 玉米胚芽浸出生产线项目 100t/d Corn Germ Preprocessing Production Line Project
73	烟台龙源油食品有限公司 Yantai Longyuan Oil Foods Co.,Ltd	50 吨/天 花生浸出成套生产线项目 50t/d Peanut Extraction Production Line and Complete Set of Equipment
74	黑河龙马经贸有限公司 Heihe Longma Jingmao Co.,Ltd	100 吨/天 精炼磷脂全套生产线项目 100t/d Phospholipid Refinery Production Line and Set of Equipment
75	黑龙江铁力九河泉有限公司 Heilongjiang Tieli Jiuhequan Co.,Ltd	50 吨/天 米糠浸出生产线项目 50t/d Rice Bran Extraction Production Line Project
76	林口县丰源油脂有限公司 Linkou County Fengyuan Oils&Fats Co.,Ltd	300 吨/天 大豆成套生产线项目 300t/d Soybean Production Line And Complete Set of Equipment
77	黑龙江建三江农垦金满仓科技工贸有限公司 Heilongjiang Jiansanjiang Agricultural Reclamation Jinmancang Technology Industry and Trade Co.,Ltd	150 吨/天 米糠膨化预处理车间项目 150t/d Rice Bran Expanding Preprocess Workshop Project 150 吨/天 大豆浸出车间生产线项目 150t/d Soybean Extraction Workshop Production Line Project
78	锦州华茂粮油食品有限公司 Jinzhou Huamao Grains,Oils and Foodstuffs Co.,Ltd	300 吨/天 花生压榨车间项目; 200 吨/天 花生浸出车间项目 300t/d Peanut Pressing Workshop Project;200t/d Peanut Extraction Workshop Project
79	江苏东宝粮油集团有限公司 Jiangsu Dongbao Grains,Oils Group Co.,Ltd	300 吨/天 大豆膨化预处理和浸出生产线改造 300t/d Soybean Expanding Preprocessing and Extraction Production Line Transformation
80	四川大地油粕有限公司 Sichuan Dadi Oil Meal Co.,Ltd	100 吨/天 大豆预处理生产线项目 100t/d Soybean Preprocessing Production Line Project
81	莒南飞鹭食品有限公司 Junan Feilu Foods Co.,Ltd	80 吨/天 花生饼浸出生产线项目 80t/d Peanut Cake Extraction Production Line Project
82	山东龙大植物油有限公司 Shandong Longda Vegetable Oil Co.,Ltd	150 吨/天 花生浸出生产线项目 150t/d Peanut Extraction Production Line Project
83	山东向春油脂集团公司 Shandong Xiangchun Oils&Fats Group Co.,Ltd	100 吨/天 大豆一级油压榨生产线项目 100t/d First-grade Soybean Oil Pressing Production Line Project
84	山东万得福实业集团有限公司 Shandong Wonderful Industrial Group	35 吨/天 醇法大豆浓缩蛋白制取生产线项目 35t/d SPC Production Line (alcohol) and Complete Set of

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	Co.,Ltd	Equipment
85	霸州腾泰利尔农产品有限公司 Bazhou Tengtailier Agricultural Products Co.,Ltd	30 吨/天 棉籽浸出生产线项目 30t/d Cottonseed Extraction Production Line and Set of Equipment
86	山东兴泉油脂有限公司 Shandong Xingquan Oils&Fats Co.,Ltd	50 吨/天 大豆浸出生产线项目 50t/d Soybean Extraction Production Line Project
87	山东玉皇粮油食品有限公司 Shandong Yuhuang Grains&Oils Food Co.,Ltd	100 吨/天 花生浸出生产线项目 100t/d Peanut Extraction Production Line Project
88	黑河龙马经贸有限公司 Heihe Longma Trade Co.,Ltd	钢构厂房、蒸脱机安装 Steel Structure Workshop、Desolventizer Toaster Installation
89	武安市棉油厂 Wuan City Cotton Oil Plant	30 吨/天 大豆生产线改造项目 30t/d Soybean Production Line Transformation Project
90	山东丽村生物科技有限公司 Shandong Licun Biotechnology Co.,Ltd	真空脱醇及 120 吨/天脱酚 The Vacuum Takes Off Alcohol and 120t/d Removing Phenol
91	新疆巴州丰润棉业有限公司 Xinjiang Bazhou Fengrun Cotton Co.,Ltd	50 吨/天 大豆浸出生产线项目 50t/d Soybean Extraction Production Line Project
92	安徽中海粮油发展有限公司 Anhui Zhonghai Grains&Oils Development Co.,Ltd	50 吨/天 大豆浸出生产线项目 50t/d Soybean Extraction Production Line Project
93	黑龙江鸿源油脂有限公司 Heilongjiang Hongyuan Oils&Fats Co.,Ltd	800 吨/天 大豆生产线成套设备 800t/d Soybean Production Line and Set of Equipment
94	黑龙江阳霖油脂有限公司 Heilongjiang Yanglin Oils&Fats Co.,Ltd	300 吨/天 大豆生产线成套设备 300t/d Soybean Production Line and Set of Equipment
95	黑龙江祥源油脂有限公司 Heilongjiang Xiangyuan Oils&Fats Co.,Ltd	600 吨/天 大豆生产线成套设备 600t/d Soybean Production Line and Set of Equipment
96	山东龙口范华 Shandong Longkou Fanhua	30 吨/天 大豆浸出生产线项目 30t/d Soybean Extraction Production Line Project
97	湖北红凯工贸发展有限公司 Hubei Hongkai Industry and Trade Development Co.,Ltd	200 吨/天 大豆浸出生产线项目 200t/d Soybean Extraction Production Line Project
98	嘉祥亚兴脱绒厂 Jiaxiang Yaxing Fleecing Factory	30 吨/天 棉花浸出生产线项目 30t/d Cotton Extraction Production Line Project
99	嘉祥万张昌巍脱绒厂 Jiaxiang Wanzhang Changwei Fleecing Factory	50 吨/天 棉花浸出生产线项目 50t/d Cotton Extraction Production Line Project
100	莘县马北油棉有限公司 Xin County Mabei Oil Cotton Co.,Ltd	150 吨/天 棉花浸出生产线项目 150t/d Cotton Extraction Production Line Project
101	甘肃禾麟油脂有限公司 Gansu Helin Oils&Fats Co.,Ltd	大豆浸出预处理成套生产线改造 Soybean Extraction Pretreatment Production Line And

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		Complete Set of Equipment Transformation
102	黑河龙马经贸有限公司 Heihe Longma Trade Co.,Ltd	100 吨/天 低温大豆粕生产线项目 100t/d Low-temperature Soybean Meal Production Line Project
103	黑龙江龙江富粮油有限公司 Heilongjiang Longjiang Fuliangyou Co.,Ltd	600 吨/天 大豆浸出生产线成套设备 600t/d Soybean Extraction Production Line and Complete Set of Equipment Project
104	陵县华齐粮油制品有限公司 Lingxian Huaqi Grains&Oils Co.,Ltd	50 吨/天 棉花浸出生产线项目 50t/d Cotton Extraction Production Line Project
105	长春玉成淀粉糖有限公司 Changchun Yucheng Starch Sugar Co.,Ltd	150 吨/天 大豆浸出生产线项目 150t/d Soybean Extraction Production Line Project
106	黑龙江阳霖油脂集团 Heilongjiang Yanglin Oils&Fats Co.,Ltd	150 吨/天 碱炼脱色 150t/d Alkali Refining Decoloring
107	陕西天成富民公司 Shanxi Tianchengfumin Company	50 吨/天 万寿菊提取生产线项目 50t/d Marigold Extraction Production Line Project
108	山东向春油脂公司 Shandong Xiangchun Oils&Fats Company	300 吨/天 大豆预处理、浸出生产线项目 300t/d Soybean Pretreatment、Extraction Production Line Project
109	山东三维油脂集团 Shandong Sanwei Oils&Fats Group	800 吨/天 大豆脱皮生产线项目 800t/d Soybean De-hulling Production Line Project
110	青岛青大黄淮公司 Qingdao Qingdahuanghuai Company	辣椒红素提取生产线项目 Capsanthin Extraction Production Line Project
111	邹平黄河油棉公司 Zouping Huanghe Oil Cotton Company	50 吨/天 大豆浸出生产线项目 50t/d Soybean Extraction Production Line Project
112	陵县华齐粮油制品有限公司 Ling County Huaqi Grain&Oil Products Co.,Ltd	100 吨/天 大豆浸出生产线项目 100t/d Soybean Extraction Production Line Project
113	霸州腾泰利尔农产品有限公司 Bazhou Tengtailier Agricultural Products Co.,Ltd	80 吨/天 大豆脱皮生产线改造项目 80t/d Soybean De-hulling Production Line Transformation Project
114	嘉祥嘉冠油脂化工有限公司 Jiangxiang Jiaguan Oils&Fats Chemical Co.,Ltd	600 吨/天花生浸出生产线项目 600t/d Soybean Extraction Production Line Project
115	商丘银河棉业集团睢阳油脂厂 Shangqiu Yinhe Mianye Group Suiyang Oils&Fats Plant	150 吨/天 棉饼浸出生产线项目 150t/d Cottonseed Cake Production Line Project
116	河北花间雨油脂有限公司 Hebei Huajianyu Oils&Fats Co.,Ltd	200 吨/天 大豆预处理、浸出生产线改造项目 200t/d Soybean Pretreatment、Extraction Production Line Transformation Project
117	中化(青岛)生物技术有限公司 Sinochem(Qingdao) Biotechnology	辣椒色素提取生产线 Capsanthin Extraction Production Line

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	Co.,Ltd	
118	济宁金海油脂有限公司 Jining jinhai Oils&Fats Co.,Ltd	300 吨/天 玉米生产线成套设备 300t/d Corn Production Line and Complete Set of Equipment
119	夏津县津华植物油厂 Xiajin County Jinhua Vegetable Oil Plant	400 吨/天 大豆膨化预处理, 350 吨/天高温浸出生产线 400t/d Soybean Expansion Pretreatment ,350t/d High Temperature Extraction Production Line

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III Customer Story 1#



This SPI project is national key project in Russia. The TASS news agency is interviewing, reporting on the spot.

Russia Amur Agricultural Associated Enterprise is not only the largest comprehensive processing enterprise of agricultural and sideline products in the Russian far East, but also one of the largest soybean processing enterprises in Russia.

Their products include soybean high-temperature meal, soybean low-temperature meal, defatted protein powder, full-fat soybean powder, edible soybean oil, food-grade phospholipid, lecithin, shortening, cream and so on. Since the first cooperation in 2003, the two sides have continuously strengthened their cooperation based on their recognition and trust in CHEMSTA. In 2017, CHEMSTA undertook the equipment manufacturing and engineering construction of the 10000 tons one year soybean protein isolate production line and 5000 tons one year soybean dietary fiber production line of Amour Agricultural Group, that is national key project in Russia. At present, the project is running successfully now.

Projects that have been cooperated between CHEMSTA and Amur Agricultural Associated Enterprise:

2003: 300t/d soybean pretreatment and extraction project

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50t/d soybean edible oil refining project

2005: 50t/d full fat soybean powder project

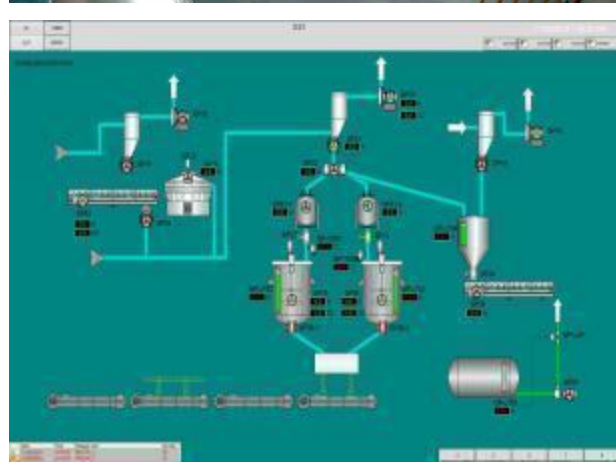
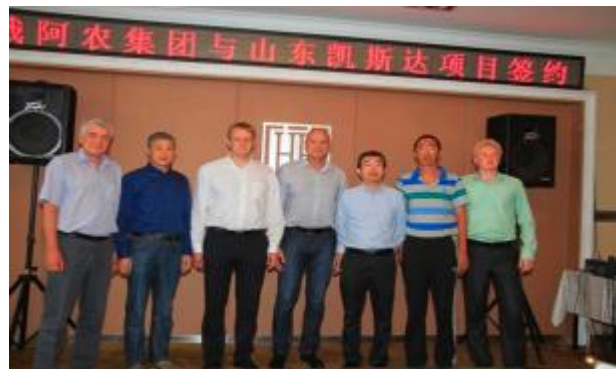
2007: 100t/d soybean white flake project

2010: 300t/d soybean preprocess and extraction project

2012: 100t/d soybean edible oil refining project (include food grade soybean phospholipid)

2015: 800t/d soybean white flake project

2017: 10,000 T/A SPI and 5,000T/A soy dietary fiber project



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Customer Story 2#



Shandong Wonderful Industrial Group Co., Ltd is a Group company which mainly engaged in deep processing of NON-GMO soybean. Group was founded on July,2001, of which registered fund reach 550 million Yuan. Except for industrial production, their business involve beef cattle breeding, financial credit services ,real estate and logistics. We are a key leading enterprise in agricultural industrialization in China.

Wonderful Group has 10 subsidiaries, the products mainly include isolated soy protein,soy protein concentrate,textured soy protein,soy flour,low-temperature soy flakes, soybean oil,soy isoflavones and other health-care foods. The products are exported to the United States,Japan,South Korea, EU, Southeast Asia, Latin America,South Africa,Australia and other 50 countries or regions.

Wonderful company is not only one national leading agricultural company,but also is one high-tech enterprise,they have the national level key Laboratory of Soybean deep processing. In recent years,the enterprise has undertaken 44 national projects for transformation of agricultural scientific and technological achievements. Until now,our enterprise has applied for 45 patents,and got 13 patents for invention,2 designs and 2 utility models.

Since 2003, we have built a dozen projects for Wonderful group, including soybean white flake

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and food grade soybean protein concentrate(SPC) projects (10,000 tons per year and 20,000 tons per year). In 2020, CHEMSTA signed a contract with Wonderful group for the world's largest single-production food grade protein concentrate project - 30,000 tons per year of food grade soybean protein concentrate, and the equipment for this project are currently under production.

Twenty years of friendship and technology have driven the development of Wonderful and CHEMSTA, in the future, we will provide better equipment and technology for each customer.

Projects that have been cooperated between CHEMSTA and Wonderful group:

2003: 300t/d soy white flake production line and equipment

2006: 10000 t/a soya protein concentrate (food grade) production line and equipment

2010: 20000 t/a soya protein concentrate (food grade) production line and equipment

2016: 200t/d soybean oil refinery production line and equipment

2020: 30000 t/a soya protein concentrate (food grade) production line and equipment



Plan View of 30,000 t/a Soya Protein Concentrate (Food Grade)

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Customer Story 3#



In July 2020, the world's largest single-line soybean protein concentrate production line was signed (with an annual output of 80,000 tons of soybean protein concentrate).

This is customer's second SPC project. In 2016, CHEMSTA built 40,000 tons SPC project and this project is successfully running now. Because the product quality is good, their orders continue to increase, and the original production capacity can no longer meet the requirements, so they ask CHEMSTA continue to build a second production line for them. Except SPC project, we also build many other project for them:

2016: 1500 TPD Soybean Processing Project (include preparation and solvent extraction)

40000 TPA Soybean Protein Concentrate Project

2017: 600 TPD Soybean Oil Refining Project (First Grade Oil)

2018: 1200 TPD Soybean Preparation De-hulling Project

2019: 140 TPD Soybean Syrup Spraying Soybean Skin Project

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2020: 80,000 TPA Soybean Protein Concentrate Project

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Customer Story 4#



As one most famous peanut oil and top 1 brand in China. Luhua Group Co., Ltd. is a national enterprise committed to be the leader of high-end edible oil and a national key leading enterprise of agricultural industrialization. It has 47 production bases with annual production capacity of 1.5 million tons of edible oil, 300,000 tons of condiments and 500,000 tons of rice and noodles. It has been awarded the title of "Reliable Oil", "China Food Safety Commitment Award", "National Science and Technology Progress Award", "China Charity Award", "Quality Award of the Governor of Shandong Province", "National Advanced Enterprise of Implementing Excellent Performance Model", "China Catering 30 Years Excellent Partner Award", "Most Respected Enterprise of Chinese Cereals and Oils", "The Most Communication Value Chinese National Brand", "National May Day Labor Certificate", "National Poverty Alleviation Advanced Collective" and other honors; successfully The company has been selected as a member of "CCTV Brand Power Project", "Xinhua News Agency National Brand Project" and "United Nations Global Compact Organization". At present, the Group has established more than 240 sales branches nationwide, forming a nationwide marketing network. 2020, Luhua Group's sales revenue is 39 billion RMB, achieving continuous growth for more than 30 years.

Luhua is committed to issues relating to agriculture and its mission is to provide healthy grain and oil for the society. Chemsta is committed to meeting the needs of our customers, constantly

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improving and optimizing process solutions and equipment structure, leading the oils & fats engineering industry. The cooperation between the two parties will set up the benchmark of peanut oil industry, help Luhua to develop a broader market prospect.

As of 2021, the two parties have worked together on the following projects:

- Luhua Group-Laiyang company: 100,000 TPA Peanut Oil Production Line
- Luhua Group-Dingtao company: 100,000 TPA Peanut Oil Production Line
- Luhua Group-Xinxiang company: 100,000 TPA Peanut Oil Production Line
- Luhua Group-Zhengyang company: 100,000 TPA Peanut Oil Production Line
- Luhua Group-Fuyu company: 100,000 TPA Peanut Oil Production Line
- Luhua Group-Fuxin company: 100,000 TPA Peanut Oil Production Line
- Luhua Group-Xinyi company: 100,000 TPA Peanut Oil Production Line
- Luhua Group-Xiangyang company: 100,000 TPA Peanut Oil Production Line

大豆加工工程技术说明

IV Brief Description for Soybean Deep Processing Production Line

4.1 整体工程由以下部分组成:

The whole project consists of the following parts:

- 原料仓储设备（客户自备）

Storage equipment for raw materials (supplied by customer)

- 大豆预处理、浸出、粕包装、精炼车间（凯斯达提供）

Soybean Preparation, Solvent extraction, Oil Refining, Packaging for white flake workshop (supplied by Chemsta)

- 浸出禁区外围设施（凯斯达提供）

Extraction workshop peripheral facilities (supplied by Chemsta)

- 大豆浓缩蛋白生产线（凯斯达提供）

Soybean protein concentrate production line (supplied by Chemsta)

- 大豆糖蜜豆皮喷涂生产线（凯斯达提供）

Soybean syrup spray soybean hull production line (supplied by Chemsta)

Spraying soybean syrup, a by-product of the protein concentrate plant, onto the crushed soybean hulls.

- 其他公用设施（如锅炉、配电、储罐、地磅、压缩空气站等，客户自备）

Other public facilities (such as boiler, electric power distribution, storage tank, weighbridge, compressed air station, etc., provided by customer)

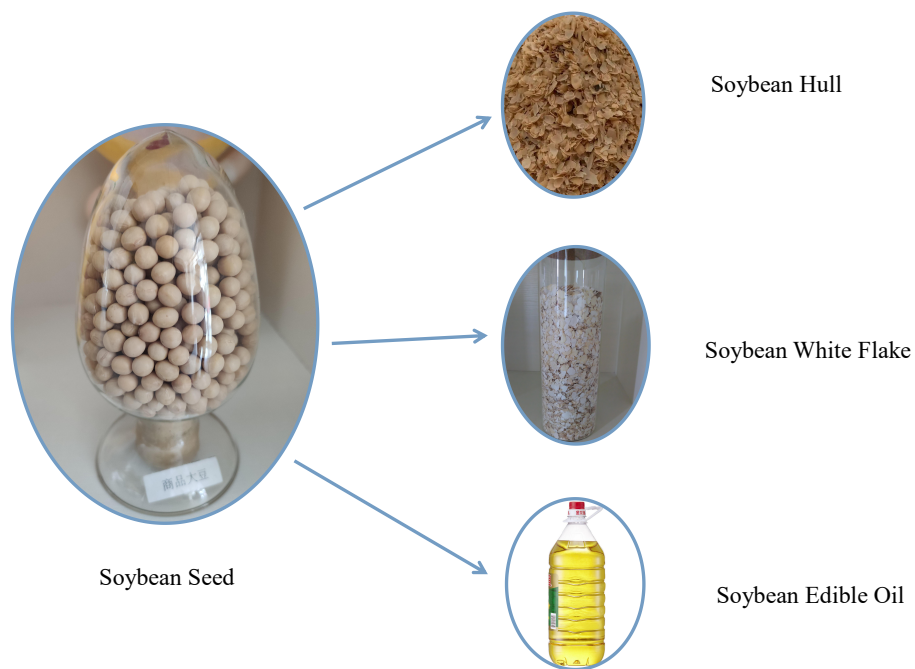
凯斯达提供工厂的全套设计，包括全厂布置、车间设备布置、工艺设计、土建条件图等，部分客户自备设备凯斯达提供全方位的技术支持。

Chemsta provides a full set of plant design, including the whole plant layout, workshop equipment layout, process design, civil conditions, etc. Part of the equipment supplied by customer Chemsta will provide a full range of technical support.

V Detailed Project Description

The whole project includes two production lines:

(1) Soybean white flake line (from soybean seed to soybean white flake).



This production line can product soya white flake and soybean oil, soybean hull.

Including soybean preparation & dehulling workshop, solvent extraction workshop and periphery equipment, soybean meal storage workshop, soybean oil refining workshop.

Add: 66# Tongji Avenue, Jining Economic Development Zone, Shandong Province, China (272000)

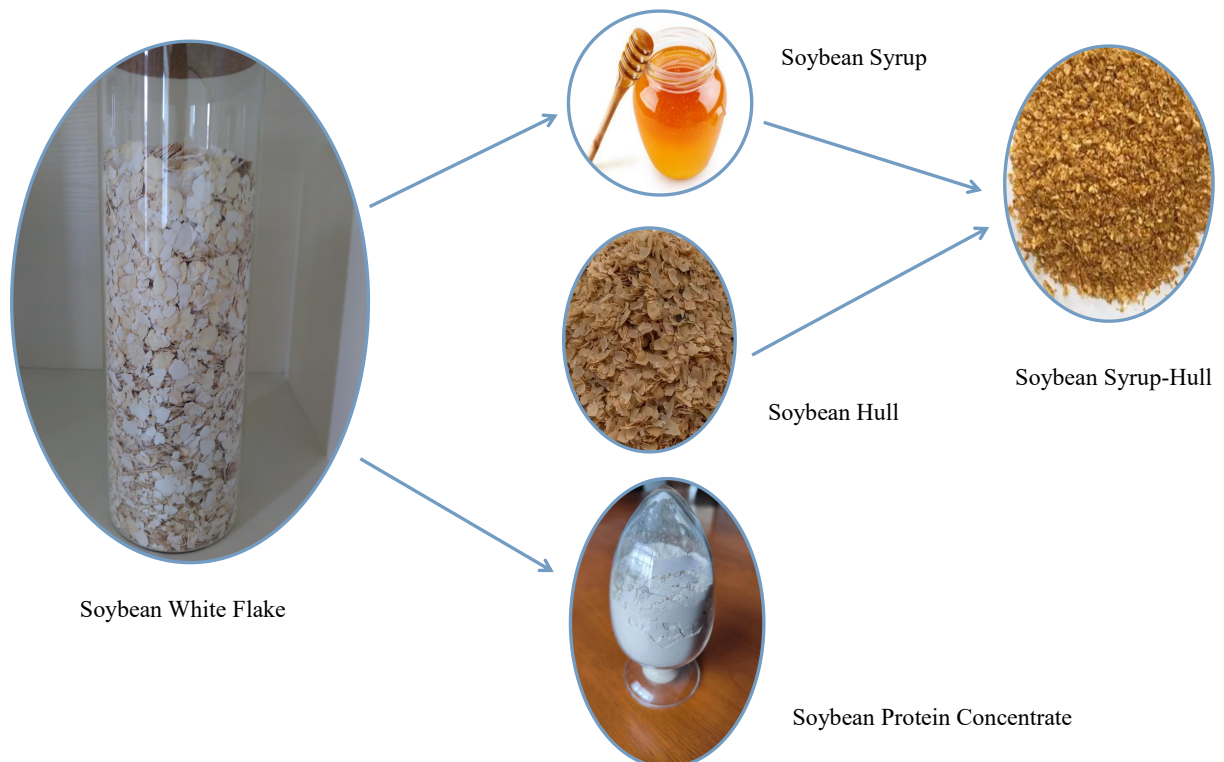
Tel: 0537-2078698

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E-mail: sales@sdchemsta.com

(2) Feed grade or food grade soybean protein concentrate production line (from soybean white flake to SPC) and soya syrup-hull line.



This production can produce feed grade and food grade soybean protein concentrate.

Including soybean white flake screening workshop, ethanol extraction workshop and periphery equipment, soybean protein crushing and packaging workshop, and soya syrup-hull line. The production line uses soybean white flake as raw material to produce feed grade (or food grade) soybean protein concentrate.

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