



Miza company for Import and Export.

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• 5TPH AVOCADO OIL EXTRACTION LINE





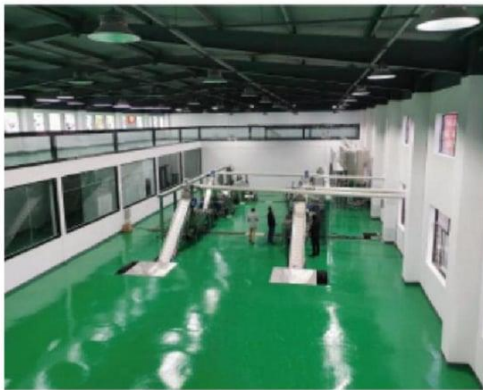
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• 40TPD OLIVE OIL EXTRACTION LINE





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• 25TPD OLIVE OIL EXTRACTION LINE





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• 10TPD OLIVE OIL EXTRACTION LINE





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6. PART PROJECT REFERENCE

· 5TPD OLIVE OIL EXTRACTION LINE





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5. PART PROJECT CASES LIST

NO.	CUSTOMER NAME	PROJECT NAME	MARK
1	GUANGDONG RONGSHENGYUAN FOOD	20T/D OLIVE OIL EXTRACTION LINE	
2	GANSU XIANGYU OLIVE OIL COMPANY	240T/D OLIVE OIL EXTRACTION LINE	
3	GANSU LONGYUANDANGU OLIVE OIL COMPANY	40T/D OLIVE OIL EXTRACTION LINE	20T/D *2 SETS
4	GANSU JINLONGYUAN OLIVE OIL COMPANY	20T/D OLIVE OIL EXTRACTION LINE	
5	GRUPO OLEO LAB (MEXICO)	5T/H AVOCADO OIL EXTRACTION	CORE EQUIPMENT
6	LEK STAR PC(UKRAINE)	35TPD SUNFLOWER OIL REFINERY	
7	NEIMENGGU HONGFA OI&FAT	150T/D SUNFLOWER OIL REFINERY	
8	NEIMENGGU MENGJIA OIL	150D/TRAPESEEDS OIL REFINERY	
9	HUNAN YONGSHENG OIL&FAT CHEMICAL	150T/D RAPESEEDS OIL REFINERY	
10	SHANDONG GAOQING YONGSHENG GROUP	200T/D 4-GRADE COTTONSEEDS OIL	PROJECT DESIGN
11	NEIMENGGU MENGJIA WULANHAOTE BRANCH	100T/D SOYBEAN OIL REFINERY	
12	HEBEI SHIJIANZHANG OIL&FAT	100T/D SOYBEAN OIL REFINERY	
13	SHANDONG ZOUPIING FUHAI GROUP	100T/D 1-GRADE COTTONSEEDS OIL	
14	SHANDONG WANDEFU GRAIN AND OIL	100T/D SOYBEAN OIL REFINERY	PROJECT DESIGN
15	HEILONGJIANG MINGDA GROUP	100T/D SOYBEAN OIL REFINERY	
16	HEILONGJIANG XIANGHE OIL&FAT	200T/D 4-GRADE SOYBEAN OIL	
17	GUANGZHOU ZHIRUN OIL&FAT FOOD	200T/D1-GRADE FISH OIL REFINERY	
18	GUANGZHOU ZHIRUN OIL&FAT FOOD	400T/D PALM OIL FRACTIONATION	
19	SHANDONG CHENXI GROUP(HONGRI OIL&FAT)	200T/D 4-GRADE SOYBEAN OIL	
20	HUNAN HUARONGHUAWEI OIL&FAT	100T/D 1-GRADE COTTONSEEDS OIL	
21	HUNAN TIANEN COTTON INDUSTRIAL	100T/D 4-GRADE COTTONSEEDS OIL	
22	HEILONGJIANG MINGDA GRAIN&OIL GROUP	230T/D 1-GRADE SOYBEAN OIL	
23	HUNAN YIHUA OIL&FAT	100T/D 4-GRADE COTTONSEEDS OIL	
24	HUBEI CHANGXIANG OIL&FAT	100T/D 1-GRADE CORN OIL	
25	ZTE ENERGY(HUBEI)	50T/D RICE BRAN OIL WINTERIZING	



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3. SCOPE OF SUPPLY AND GUARANTY

SUPPLY OF SELLER

- Complete set of equipment listed in the price list;
- Installation and test-run for the complete equipment and control system;
- Drawings of process flow, equipment layout, foundation & hole and wiring diagram etc.
- Full sets of documents including English operation manual and other necessary file.

SUPPLY OF BUYER

- Clean water and water pressure in accordance with hygienic conditions;
- adequate power and voltage supply;
- Inlet and drain line configuration;
- In addition to the leaf delivery pipe configuration;
- Discharge of slag to the pipeline outside the workshop (if automatic slagging is considered);
- 304 stainless steel storage tank configuration;
- Operating technicians with strong learning ability;
- Responsible for the construction designing and construction;
- Responsible for all utility engineering, pipe works and tanks outside the plants;
- Pay for technical service (for installation guide, single machine test-run, test run, examining);
- Additional fee will be required to the construction drawing by the seller.

QUALITY GUARANTY

- Comply with the hygienic standard for edible oil production, two-year warranty (under normal use).
- Within warranty period, we will provide all spare parts or maintenance service for free once the equipment break down because of quality problem; Except for improper operation or exceeding the use conditions of the equipment; If its due to the wrong operations of your staff, we will charge the cost for the spare parts and site service.

INSTALLATION AND COMMISSION

- Send 1-2 engineers for installation guide, commissioning and your staff training. All these jobs takes around 20-30 days but due to your preparation conditions; Besides the round-trip tickets, visa cost and accommodation during installations, you should also bear our engineer USD100/person/day as salary.

4. GENERAL QUOTATION OF THE PROJECT

ITEM	GOODS DESCRIPTION	SPECIFICATION	QTY	UNIT PRICE	FOB CHINA PORT
1	OLIVE OIL EXTRACTION LINE	SLD-EVOO-750	1 SET	USD124,000	USD124,000
PAYMENT TERM AND LEAD TIME					
PAYMENT TERM	40% T.T IN ADVANCE AFTER CONTRACT SIGNED AND 60% SHOULD BE PAID BEFORE THE SHIPMENT				
LEAD TIME	WITHIN 90 DAYS SINCE RECEIVING YOUR DEPOSIT.				

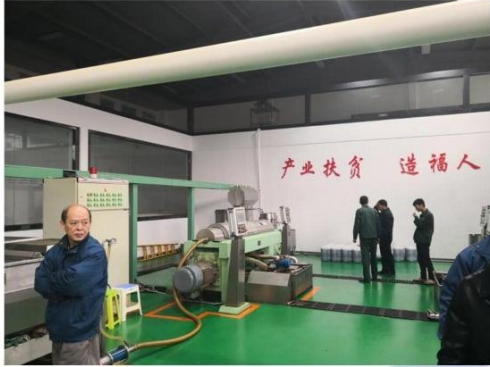


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Vertical disc separator

- Soft start, stable start, energy saving and low noise;
- Imported photoelectric eye detection speed, intuitive and accurate;
- 304 stainless steel, all contact part by food grade stainless steel
- Independent liquid pumping system;
- Non-stop discharge technology, flexible speed control;
- The starting speed and running speed can be adjusted freely to keep the loading operation;
- Equipped with oil-water buffer tank and product oil tank together with oil pump

Electronic control system

- All single electrical control integration;
- Control all parts in same control cabinet.
- Temperature display, automatic alarm for work failures;





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Fruit hammer mill*1 set

- 304 stainless steel, hammer-shaped crushing fruit, reducing mechanical wear;
- crushing granule diameter 2-5mm;
- Reasonable structure and easy cleaning
- direct drive with insulated inter layer;
- equipped with distribution auger to distribute the pulp into different malaxing tank;

Malaxing unit*1 set

- 304 stainless steel, equipped with water insulation jacket;
- Automatic light-eye liquid level detection, full material automatic alarm;
- gate valve push rod discharge, screw auger agitator;
- Feed volume and temperature can be controlled on touch screen directly, free adjustment;
- screw feed, double seal; equipped with screw pump and screw auger to transfer the pomace into decanter
- freely adjust the amount of water added in the pulp



2.6 Horizontal decanter centrifuge

- Soft start, stable start, energy saving and low noise;
- Imported high speed bearings, high temperature resistant grease;
- main bearing temperature self-falling device;
- main bearing lubrication adding device;
- Two phase or three-phase separation, can be adjusted according to production requirement;
- The bearing temperature and the rotation speed can be read on the touch screen directly and also with failure alarm function.

Vibration filter

- 304 stainless steel collection tank;
- fast micro-vibration, vibration spring support;
- to separate impurities by vibration sieve



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2. CORE EQUIPMENT DESCRIPTION

Storage hopper*1 set

- 304 stainless steel, with stainless steel frame and hopper.
- The hopper discharge hole can be adjusted by manual according to production requirements
- Equipped with stainless steel belt conveyor to transfer the fruit into next step.

Leaf removal lifter*1 set

- 304 stainless steel, belt conveyor and air fan shell.
- Equipped with automatic fruit detection device, no fruit automatic stop;
- Simple structure, easy cleaning and installation
- Convenient for fruit transfer, reducing labor intensity;

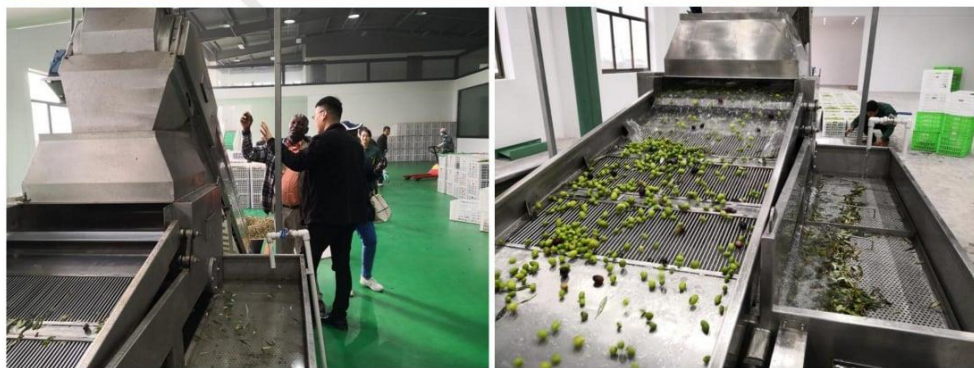
Note: The PVC pipe from the discharge port to the fan is provided by the user according to the location of the workshop.



washing machine*1 set

- 304 stainless steel, water tank, vibration sieve, water pump etc.;
- Automatic fruit detection device, no fruit automatic stop;
- The amount of washing water can be adjusted freely, preventing leakage of fruit;

Note: The washing water need drainage system such as ditch and water pipe according to the workshop condition.





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1. DESCRIPTION OF PRODUCTION PROCESS

STEP 1	TRANSPORTATION AND STORAGE SYSTEM
	The collected fruits shall be put into small baskets first and then delivered to factory, The baskets will stack in the ventilate storage warehouse to avoid oxidation and fermentation phenomenon because of the overheat and bruise.
STEP 2	LEAVES AND TWIGS REMOVAL SYSTEM
	The olive fruits are poured into the feeding hopper and then conveyed to the washing machine for the next process by the belt conveyor. The chlorophyll in the leaf is easy oxidation to affect the oil quality during the crushing and malaxing process. One draught fan is mounted on the top of the belt conveyor to remove the twigs and leaves from the olives fruits.
STEP 3	FRUIT WASHING SYSTEM
	The olive fruits are conveyed into the washing machine and then rinsed & washed to remove the dust under the function of strong water flow. Then the washed fruits flow through one vibration sieve mounted on the washing machine to separate the small leaves and the clean fruits comes down to the hopper of the screw conveyor for next step. The water is collected for recovery by the circulation tank under the vibration sieve.
STEP 4	FRUIT CRUSHING SYSTEM
	After the washed olive fruits are conveyed into the crusher by screw conveyor. The hammer mill will be used to crush the fruit into pulp. The sieve size and beat speed is the key control point to ensure the AV, POV, UV, phenols and sterol at a good state. The advised sieve size is 2-5mm and rotation speed is 2500-3000r/min.
STEP 5	FRUIT PULP MALAXING SYSTEM
	The crushed pulp will be pumped or conveyed (one screw distributor will be used if the line is equipped with only 2 malaxing tanks) into the horizontal jacket malaxing tank for evenly mixing by screw mixer. This malaxer can be good for oil droplets formation and heat disipation too. The jacket will be filled by water to meet the temperature requirements. The malaxing time and temperature can be set according to different fruits.
STEP 6	OIL-WATER-POMACE SEPARATION SYSTEM
	After adequate malaxing, the pulp (oil/water/pomace) will be pumped into the 3-phase horizontal decanter centrifuge (2-phase decanter is also available and optional) to separate the olive oil from the pomace and water. This system consists of a tricanter, vibration sieve and screw conveyor for pomace discharge outdoor
STEP 7	OLIVE OIL PURIFICATION SYSTEM
	The oil from tricanter still contains less amount of water and impurities, then the disc separator is used to separate the moisture and impurities from the oil. During the separation process, 10%-15% will be added. This system is also called olive oil purification and composed of buffer tank, disc separator and oil pump.
STEP 8	VIRGIN OLIVE OIL STORAGE SYSTEM
	The oil from separator will be pumped into sedimentation tank and stay for some time to remove the seldom moisture and impurities. After stay some time, the oil will be pumped into big stainless steel tank for storage. The tank should be avoid light and heat, constant temperature and nitrogen filling if necessary.



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5	TRICANTER (3-PHASE DECANTER)	<p>OLIVE HANDLING CAPACITY:1.0-1.2T/H</p> <p>1. ROTOR DRUM DIAMETER:355MM 2. ROTOR DRUM LENGTH:1460MM 3. ROTATIONSPEED:MAX.4300RPM 4. MAIN AND VICE MOTOR:22KW+7.5KW 1. DIFFERENTIAL SPEED:5-35RPM 6. SEPARATION METHOD:THREE PHASE 7. SIZE/WEIGHT:3.3*1.0*1.5M/1750KGS</p> <p>OLIVE POMACE SCREW CONVEYOR</p> <p>1. USED FOR THE POMACE DISCHARGE 2. MOTOR POWER:2.2KW 3. SIZE/WEIGHT:0.5*0.5*6M/350KGS</p> <p>OIL/WATER POMACE VIBRATION SIEVE</p> <p>1. USED FOR POMACE FILTRATION 2. VIBRATION MOTOR POWER:0.2KW 3. SIZE/WEIGHT:1.6*0.9*0.9M/100KGS</p> <p>OLIVE OIL PUMP FLOWRATE:30L/MIN.</p> <p>1. USED TO PUMP OIL INTO BUFFER TANK 2. PUMP MOTOR POWER:0.37KW</p>	SUS304	1	54,500	54,500
6	DISC SEPARATOR	<p>OIL BUFFER TANK VOLUME:100L</p> <p>1. SIZE/WEIGHT:1.1*1.0*2.1M/150KGS</p> <p>MATERIAL INPUT CAPACITY:1000L/H</p> <p>1. ROTOR DRUM DIAMETER:240MM 2. ROTATION SPEED:AROUND 7000RPM 3. POWER:4.0KW</p> <p>OLIVE OIL PUMP FLOWRATE:30L/MIN.</p> <p>1. USED TO PUMP VIRGIN OIL INTO TANKS 2. PUMP MOTOR POWER:0.37KW</p>	SUS304	1	20,500	20,500
7	HOT WATER TANK	<p>HOT WATER TANK VOLUME:500L</p> <p>1. TO SUPPLY HOT WATER FOR THE LINE 2. ELECTRIC HEATING POWER:24KW 3. SIZE/WEIGHT:0.8*0.8*1.5M/100KGS</p> <p>HOT WATER PUMP:0.37KW</p>	SUS304	1	1,500	1,500
8	CONTROL CABINET	<p>4 CONTROL UNITS FOR THE WHOLE LINE</p> <p>1. EACH PART ARE CONTROL SEPARATELY 2. THE CONNECTORS BY AVIATION PLUGS 1. PLC TO CONTROL THE KEY PARAMERTS TEMPERATURE, SPEED, TIME, ALARM ETC</p>	SUS304	1	7,500	7,500
9	INSTALLATION MATERIALS	<p>1. PIPELINE, FITTINGS AND VALVES ETC 2. PVC PIPE FOR LEAF REMOVE & EXHAUST 3. CABLES, CABLE CONDUIT, CABLE TRAY</p>	SUS304	1	1,500	1,500
TOTAL		87KW		9		124,000



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NO.	EQUIPMENT NAME	SPECIFICATION SHEET	MATERIAL	QTY	UNIT-PRICE	SUB-TOTAL
/	/	/	/	SET	USD	USD
1	OLIVES FRUIT BELT CONVEYOR	OLIVE FRUIT STORAGE HOPPER:2M3 CONVEYOR MAX.CAPACITY:1500KG/H 1.MAX.LIFTING HEIGHT:3.5M; 2.CONVEYOR MOTOR POWER:1.1KW 3.BELT RUNNING SPEED:1M-8M/MIN. MAX.AIR QTY OF FAN :1200M3/H 1.INLET/OUTLET SIZE:225MM/200MM 2.FAN ROTATION SPEED:2800RPM 3.FAN MOTOR POWER:2.2KW 4.SIZE/WEIGHT:5.6*1.6*4.4M/500KGS	SUS304	1	4,250	4,250
2	OLIVES FRUIT WASHING MACHINE	WASHING MAX.CAPACIYY:1000KG/H 1.WASHING TANK VOLUME:1.5M3 2.WATER CIRCULATION QTY:10M3/H 3.CONSUMPTION:2-4T(OLIVE)/T(WATER) 4.WATER PRESSURE:0.08MPA-0.1MPA 5.WATER PUMP MOTOR:1.5KW; 6.VIBRATION SIEVE MOTOR:0.37KW 7.SIZE/WEIGHT:2.3*1.4*1.6M/325KGS	SUS304	1	5,250	5,250
3	OLIVES FRUIT CRUSHING MACHINE	CONVEYOR MAX.CAPACITY:1500KG/H 1.CONVEYOR MOTOR POWER:1.1KW CRUSHER CAPACITY:1500KG/H 1.ROTATION SPEED:2950RPM 2.SIEVE DIAMETER:325MM 3.SIEVE MESH DIAMETER:2-5MM 4.MOTOR POWER:18.5KW 5.SIZE/WEIGHT:1.0*0.8*0.9M/260KGS	SUS304	1	8,500	8,500
4	HORIZONTAL MALAXING MACHINE	MALAXING CAPACITY:800KG/TANK 1.MALAXING TANK UNIT:2*1000L TANKS 2.JACKET LAYER FOR HOT WATER 3.AGITATOR ROTATION SPEED:18RPM 4.MALAXING SPEED:30-45MIN. 5.AGITATOR MOTOR POWER:1.1KW*2 6.WATER CIRCULATION PUMP:0.22KW*4 1.ELECTRIC HEATING MOTOR:1.5KW*4 2.PASTE SCREW AUGER MOTOR:1.1KW 3.PASTE PUMP MOTOR POWER:1.1KW 10.SIZE/WEIGHT:2.7*2.0*1.6M/880KGS	SUS304	1	20,500	20,500

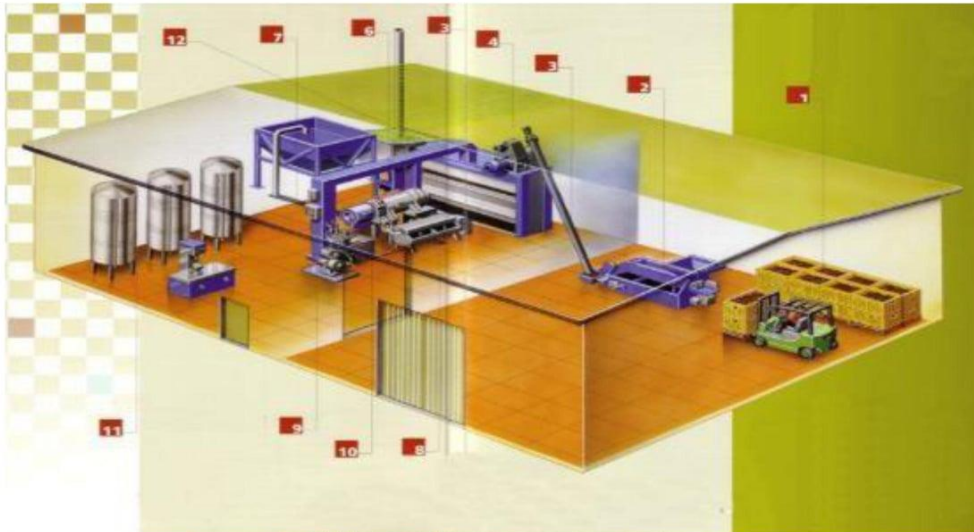


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