

Manufacturer and Supplier of Oil Press, Oil Presses Plant in China

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SPIRAL OIL PRESS

Oil is extracted from a number of fruits, nuts and seeds for use in cooking and soap making or as an ingredient in other foods such as baked or fried goods. Oil is a valuable product with universal demand, and the possible income from oil extraction is therefore often enough to justify the relatively high cost of setting up and running a small scale oil milling business.

Raw material preparation

Oilseeds and nuts should be properly dried before storage, and cleaned to remove sand, dust, leaves and other contaminants. Fruits should be harvested when fully ripe, cleaned and handled carefully to reduce bruising and splitting. All raw materials should be sorted to remove stones etc. and especially moldy nuts, which can cause aflatoxin poisoning. When storage is necessary, this should be in weatherproof, ventilated rooms which are protected against birds, insects and rodents. Some raw materials (for example groundnuts, sunflower seeds) need dehusking (or decorticating). Small manual machines are available to give higher production rates than manual dehusking

Methods of extraction

There are basically three methods of removing oil from the raw materials: solvent extraction, hot processing or cold processing. Solvent extraction is not suitable for small-scale processing because of high capital and operating costs, the risk of fire and explosions from solvents and the complexity of the process. Equipment for hot or cold processing is available at different scales of operation from household to industrial scale. Traditional methods of extraction are described below, followed by higher output manual machines and mechanized extraction.

Principle of extraction

Expellers are continuous in operation and work by grinding and pressing the raw material as it is carried through a barrel by a helical screw. The pressure inside the barrel, and hence the yield of oil, are adjusted using a 'choke' ring at the outlet



Performance Index (Hot extruding) YZS-68 (5.5kw)

Raw Material	Capacity(kg/hr)	Output Rate(%)	Output Efficiency
Cotton seeds	50-60	12-14	65-72
Soy bean	28-37	10-16	61-65
Peanut kernel	45-60	35-45	91-92
Rape seeds	45-60	30-38	82-85



Performance Index (Hot extruding) YZS-80 (5.5kw)

Raw Material	Capacity (kg/hr)	Output Rate (%)	Cake Residual (%)
Rape seeds	80-100	30-35	7.5-8
Ground nuts	80-100	35-45	7
Beans	75-95	10-14	6.5-7
Sesame	80-100	44-47	6.5-7.5
Cotton seeds	40-50 (cold press)	10-14	5.5-6.5

Performance Index YZS-95 (7.5kw)



Raw Material		Capacity (kg/hr)	Output Rate (%)	Cake Residual (%)
Rape seeds	Hot pressing	150-170	30-38	7.5-8
	Cold pressing	75-95	28-35	
Peanut	Hot pressing	150-185	35-45	7
	Cold pressing	65-95	32-40	
Bean	Hot pressing	135-160	10-16	6.5-7
	Cold pressing	70-105	8-14	
Sesame	Hot pressing	150-185	44-47	6.5-7.5
Cotton seeds	Cold pressing	95-105	10-14	5.5-8.5

Performance Index YZS-100 (7.5kw)



Raw Material		Capacity (kg/hr)	Output Rate (%)	Cake Residual (%)
Rape seeds	Hot pressing	150-170	30-38	7.5-8
	Cold pressing	75-95	28-35	
Peanut	Hot pressing	150-185	35-45	7
	Cold pressing	45-65	32-40	
Bean	Hot pressing	145-160	10-14	6.5-7
	Cold pressing	70-105	8-14	
Sesame	Hot pressing	150-170	44-47	6.5-7.5
Cotton seeds	Cold pressing	85-105	10-14	5.5-6.5

Performance Index YZS-120/ZX105 (11kw)

Table (1) Production Capacity



Raw material		Raw material Feeding per hour (kg)	Oil output per 100kg raw material	Dry cake residue(%)
Rape seeds	Hot pressing	7000-8000	30-38	7.5-8
	Cold pressing	2400-3000	28-35	
Ground nuts	Hot pressing	5000-7000	35-45	7
	Cold pressing	2000-3000	32-40	
Bean	Hot pressing	6000-7000	10-16	6.5-7
	Cold pressing	2500-3500	8-14	
Sesame	Hot pressing	7000-8000	44-47	6.5-7.5
Cotton seeds	Cold pressing	3000-3500	10-14	5.5-6.5

Performance Index (Hot extruding) YZS-130 (15-18.5kw)



Raw Material	Capacity (kg/hr)	Output Rate (%)	Cake Residual (%)
Rape seed	333-415	30-38	7.5-8
Ground nut	350-450	35-45	7
Soybean	290-330	10-16	6.5-7
Cotton seeds (cold pressing)	220-290	10-14	5.5-6.5

Performance Index (Hot extruding) YZL130 (18.5kw)



Raw Material	Capacity (kg/hr)	Output Rate (%)	Cake Residual (%)
Rape seed	410-500	30-38	7.5-8
Ground nut	420-500	35-45	7
Soybean	350-410	10-16	6.5-7
Cotton seeds (cold pressing)	320-370	10-14	5.5-6.5

Performance Index (Hot extruding) YZS-165 (22-30kw)



Raw Material	Capacity (kg/hr)	Output Rate (%)	Cake Residual (%)
Rape seed	500-625	30-38	7.5-8
Ground nut	530-630	35-45	7
Soybean	450-530	10-16	6.5-7
Cotton seeds	430-500	10-14	5.5-6.5

THE OIL PRESS WITH ELECTRICAL HEATER



YZS series and YZL series are all can designed to this model. It includes electrical heating pipe and control cabinet. The power of heating pipe is 1.5kw

Usually, when press the oilseeds, the oil press need be grinded first using raw material, in order to make the pressing temperature of chamber reach 80-120 degree. Then there is oil come out. If there is no heater, it takes about 30 minutes to make the temperature reach the appointed temperature. But this kind of heated oil press only needs five minutes. Moreover, the heater is also helpful for increasing oil output. Especially for lower oil-bearing oilseeds, such as soybean, cotton seeds.

II. INTEGRATED OIL PRESS

The integrated Vegetable Oil Presses are advance model from the oil press. These include motor, vacuum filter, heater and electric control cabinet. The assistant part can help the oil press with higher output. The function of the vacuum oil filter used to filtrate the crude oil which come out from oil press. They are an ideal choice for customers.



Main Technical Data of Oil press heated by electricity

Model	Capacity	Power	Weight	Outside dimension
YZS-80A	100kg/h	5.5+0.75kw	700kg	1890*1160*1790mm
YZS-95A	150-200kg/h	7.5+1.1kw	900kg	2100*1200*1890mm
YZS-100A	200kg/h	7.5+1.1kw	900kg	2100*1200*1890mm
YZS-120A	250kg/h	11+1.5kw	1000kg	2200*1250*1890mm

THE OIL PRESSES WITH DIESEL ENGINE

YZS series and YZL series oil presses also can match the diesel engine as follows.

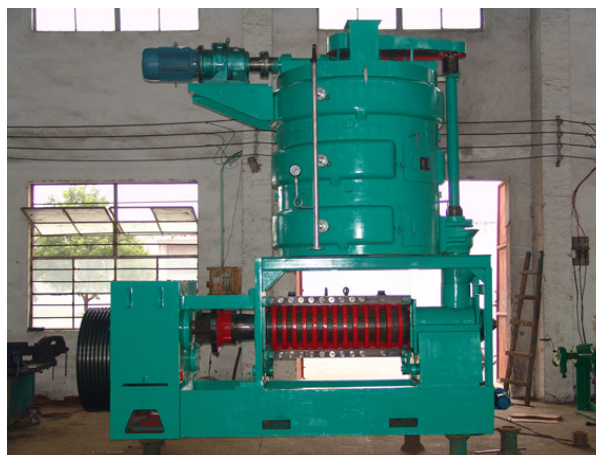


Model	YZS-68	YZS-80	YZS-95	YZS-100	YZS-120	YZS-130	YZL130
Power	8-10HP	8-10HP	12-15HP	12-15HP	20-22HP	25-30HP	30HP

LARGE SCALE OIL PRESSES

These vegetable oil & biodiesel processing plants are with big capacity which mostly use in middle-large scale oil plant. They can be divided into two kinds: One is hot processing, which includes steam cooker and oil press. The steam cooker is used for oilseeds pretreatment before pressing. The other is the cold processing. The advantage of this kind of machine is lower temperature when press the seeds. It is about 80 degree, which can protect the nutrition element in the oil.

These are oil plants with big capacity, high oil output, low oil residual, light processed fats color, good quality, rich nutrient.



Main technical Data of Large bio diesel processing plants

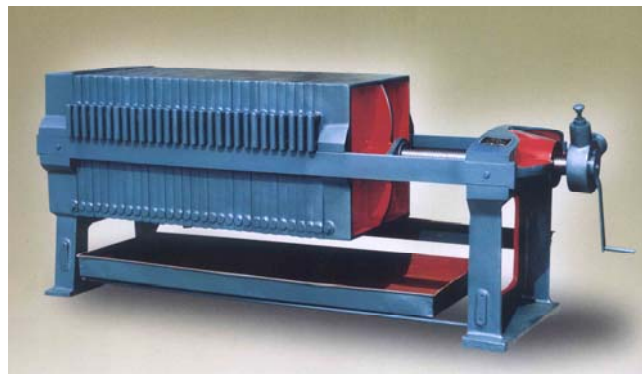
MODEL	CAPACITY(T/D)	POWER(KW)	NET WEIGHT(KG)	DIMENSION(MM)
200A-3	8-10	18.5	4300	2850*1850*3270
YZL24	20	45	5000	2900*1850*3240
YZL28	40-60	50+11+4	9160	3740*1920*3843
YZL32	90-120	90+11+5.5	11000	4100*2270*3850

Clarification of oil--Oil filter

Crude (freshly extracted) oil contains moisture, and fiber, resins, colors etc. from the plant material, which make it darker and more opaque. These materials are removed by clarification – either by letting the oil stands undisturbed for a few days and then separating the upper layer, or by using an oil filter. The oil is filtered through a cloth and heated briefly to 100°C to boil

off any remaining traces of moisture. This is usually sufficient to meet the quality needs of customers and give a shelf life of

several months when correctly packaged. However, the oil requires additional refining stages of de-gumming, neutralising and de-colouring to have a similar quality to commercially refined oils, and these stages are difficult to complete at a small scale.



Main Technical Data

Model	Capacity	Power	Net Weight	Outside dimension
YLY-250	100kg/h	0.75kw	155kg	840*610*710mm
YLY-350	200kg/h	1.1kw	500kg	1340*7200*940mm
YLY-65	1000kg/h	3kw	2500kg	3000*1020*1187mm