

Goyum

A Technology Partner in Sesame Oil Extraction

(Established in 1971 Supporting and contributing Veg Oil Industry growth for the past 50 years tirelessly)



Mr Vinod Jain

Chairman and Managing Director, Goyum Screw Press

Brief about Goyum Screw Press

The Goyum, based out in Ludhiana city of Punjab known as Manchester of India has been an undisputed kingpin & global leader for the last 50 years with rich expertise for engineering, mechanism suppliers & installation provider of the turnkey plants of:

Vegetable Oil Extraction Plant.

- a). Mechanical extraction (Screw Presses)
- b). Solvent Extraction

Edible Oil Refining Plant

- a). Physical Refining
- b). Chemical Refining
- c). Enzymatic pretreatments

Waste Recycling etc.,

- a). Used engine oil refining systems
- b). Waste tyre pyrolysis plants
- c). Scrap shredding plants

Such projects require a high degree of engineering sophistication and precision manufacturing capability, that we are committed to delivering to our clients. For that, we

“Oilseed pretreatment usually means the working processes of taking out impurities from the oil content to make the oilseed in the best position before pressing to extract the most oil. This is the first and most important step during the entire setup of the oil mill plant. This is the part where the seeds are procured, dehulled, cleaned, and cooked so that the oil extraction process can be carried out in a more efficient manner so that the final production or extracted oil is of the highest quality.”



have advanced technologies of Fabrication, Machining, Assembly, Packaging imported from the USA, Germany, South Korea, Japan & England.

Our dedicated team of specialists and experienced engineers can assist & guide you in Installation & training to your team, testing, Commissioning, Plant Design & Upgrade along with Plant Maintenance.

We already have a portfolio of 400+ projects commissioned in all 7 continents covering 54 Countries including the USA, Belgium, Bulgaria, Canada, UK, Australia, and Africa which is a second home to us.

We have installed and commissioned 57 turnkey projects for Sesame oil extraction majorly in India, Sudan, Nigeria, Ethiopia, Tanzania, Burkina Faso, Uganda & Chad.

Oil Seed Processing and Extraction Machinery.
(for Extraction of Oil from Sesame seeds)

a. Oil seeds Pre-Cleaning Equipment

Oilseed pretreatment usually means the working processes of taking out impurities from the oil content to make the oilseed in the best position before pressing to extract the most oil. This is the first and most important step during the entire setup of the oil mill plant. This is the part where the seeds are procured, dehulled, cleaned, and cooked so that the oil extraction process can be carried out in a more efficient manner so that the final production or extracted oil is of the highest quality.

b. Organic impurities: such as stem leaf, cord, chemical

fibres, velveteen, and their seeds

- c. Inorganic impurities: such as soil and metal, about oil-bearing impurities.
- d. Cleaning: Remove leaves, sticks, stones, sand, dirt, and metal contaminants. This process is usually referred to as cleaning and scaling equipment including strainers, planners, peeling machines, magnetic tools and belt conveyors, etc.
- e. Cooking/Conditioning: Heating the seeds is an option, but not required. This can increase the efficiency of extraction and protein availability.
- f. Screw Presses: Pressing itself indicates that the seed is totally pressed to drain out maximum oil. The sesame seed is a very tiny seed and contains 38 to 55% of oil. Due to its nature, it's difficult to extract the complete oil in a single stage. The seed is cleaned, destoned, separated from the magnetic particles, and cooked then allow to the screw press 1st stage. Where some oil content drained cake will be the by-product. The cake again passed to the second stage screw press where again some quantity of oil will be drained out leaving 10- 12% oil in the cake. The cake again passed through the third stage screw press where the oil will be drained out leaving 5-6% oil on the cake. The Oil extracted through mechanical pressing is having some natural ingredients un-affected improves the nutritional factors. The sesamol a constituent present in expelled sesame oil will help in reducing and controlling diabetes and arteries thickening. This type

of method is widely used on a small scale where solvent extraction is not viable.

Goyum Mechanical full pressing machines available from 2.5 tons per day allow mini and micro industries set up. The biggest Screw press available is 120 tons per day on Full press and 200 tons on pre-press. The Wide range of Goyum Machines will be helpful to the entrepreneurs to set up various capacities of industries ranging from 3 tons per day to 1000 tons per day. Filtered oil is widely accepted for human consumption. After full pressing, the balance cake with 5 -6% of oil will be transferred to the solvent extraction process where the balance of 6% oil will be extracted.

Apart from Screw presses Goyum also manufacture various equipment and plants which include the following as well

- Vibro separators for solids and liquids
- Filtration equipment for powders and liquids
- Feed manufacturing equipment for poultry and cattle
- Rice Milling equipment
- Special Kholu extraction systems
- Cashew nut shell liquid extraction systems
- Tree born oilseed processing system
- Filling and Packaging lines for vegetable oils
- Tailor made solutions as per industry demand