

## Kern Kraft KK40 F



Circle Energy offers high quality German screw presses designed especially for COLD PRESSING. The cold press systems are suitable to achieve high quality Edible oil or to achieve the German DIN Standard for biofuels assuring highest quality oils for biodiesel feedstock.

### KK40 Value Points

The Kern Kraft KK40 has many features that will make it the best choice for your project:

1. Frequency drive for variable speed operations
  - a. More energy efficient than a configuration where the motor operates at speed and then is mechanically reduced.
  - b. Electrical service options: 220 single phase, 240 three phase, 480 three phase
  - c. Motor and gear box operates slower and colder.
    1. Resulting in longer bearing life.
    2. Resulting in colder oil extraction, improving oil quality
2. Gear box design & motor configuration.
  - a. Kern Kraft uses a heavy duty spur tooth gear and high oil capacity reservoir to keep moving parts well lubricated and cool running for dependable 24/7 operation. The high RPM motor shaft and associated parts are separate from the gear box- screw assembly to eliminate operational heat and power is enhanced by an industry proven heavy ribbed belt configuration for flexibility, easy maintenance, and long life. This results in much cooler press operation where the motor fan, pulleys, and belt actually cools the gearbox.
  - b. Many competitors use an Inline Helical gear with motor attached. This configuration has much higher rpms within the gear box generating heat. This configuration moves the gear & motor heat into the screw barrel assembly making it much more difficult to maintain optimal cold press temperatures.
  - c. Sight gage for oil level verification.
3. Twin screw configuration
  - a. This takes advantage of the higher oil extraction efficiency and cooler operations of small screws while giving more capacity.
4. Feed hopper with magnets and slide closure.
  - a. Most presses do not have magnets in the grain flow or the ability to stop the grain flow at the screw input.
5. Stainless oil drip tray





- 6. Multiple screw types for many different seeds
  - a. Standard (camelina, canola, flax, hemp, mustard, sesame, sunflower, pumpkin and many others)
  - b. High oil ( walnut, pecan, copra)
  - c. Soybean/ Hard seed ( soybean, grape, pomegranate)
- 7. Compact design
  - a. 200 kilo weight ( approximate)
  - b. Dimensions: 480X480X620mm L - W-H
- 8. Press head Design
  - a. Utilizing a changeable prejet with intake with a bolt-cover nut-locking nut configuration.
  - b. Changeable final jets for many seed types and conditions.
- 9. Hardened components for long wear life
- 10. Special press tools and spanner wrenches
- 11. Press head pre heaters that operate independently of the screw press
  - a. PID temperature control option available ( recommended for soybeans)

**Warranty:** One year manufacturer’s warranty excluding damage or excessive wear due to impurities in the grain or misuse.

This information makes the Kern Kraft KK40 cold screw press the best choice for your cold pressing project.

**Additional options:**

Item	Qty.	Part-Number	Description
	2		Soybean / Hard seed screw (grape, pomegranate)
	1		Hour Meter
	1		PID temperature controller (Strongly recommended for pressing soybeans)
	2		Oil rich seed screw (copra, walnut, sunflower hearts)
	2		Oil rich prejet with intake
	1		Stainless Sieve enclosure with valve
	1		Stainless feed hopper

