ZF20 Lubricant Filling Machine (Honey, Sauce, Water)

A lubricant filling machine is a type of equipment used in the manufacturing industry to fill containers with lubricants such as engine oil, grease, and other fluids.

It is designed to accurately dispense a predetermined amount of lubricant into the container, ensuring consistent quality and reducing waste. These machines can be operated manually or automatically, and can vary in size and capacity depending on the needs of the manufacturing process.

The working principle of a lubricant filling machine is based on the principle of positive displacement. Positive displacement means that a fixed volume of fluid is dispensed into each container, and the process is repeated for each container.

The lubricant is first fed into a holding tank, where it is stored until it is ready to be dispensed into containers. The containers are then moved into position, either manually or by an automated conveyor system. Once the containers are in place, a filling nozzle is lowered into the container, and the lubricant is dispensed through the nozzle into the container.

The filling process is controlled by a pump or piston that moves the lubricant from the holding tank to the filling nozzle. The pump or piston can be adjusted to dispense a specific volume of lubricant into each container, ensuring consistency and accuracy.

Once the container is filled with the required amount of lubricant, the filling nozzle is lifted, and the container is moved to the next stage of the manufacturing process. The lubricant filling machine can be programmed to fill containers at a specific rate, ensuring that the manufacturing process is efficient and consistent.

The advantages of using a lubricant filling machine include:

1. **Increased Efficiency:** Lubricant filling machines are designed to fill containers quickly and accurately, which helps to increase the overall efficiency of the manufacturing process.
2. **Consistency:** The use of a lubricant filling machine ensures that the same amount of lubricant is dispensed into each container, which helps to maintain consistency in the quality of the end product.
3. **Reduced Waste:** With the use of a lubricant filling machine, the amount of lubricant wasted due to overfilling or spillage is greatly reduced, which leads to cost savings.
4. **Improved Safety:** The use of a lubricant filling machine can help to improve safety in the workplace by reducing the risk of spills and other accidents that can occur during manual filling processes.
5. **Versatility:** Lubricant filling machines can be used to fill a wide range of containers, from small bottles to large drums, making them a versatile option for a variety of manufacturing processes.

Overall, the use of a lubricant filling machine can help to improve the efficiency, consistency, and safety of the manufacturing process, while also reducing waste and cost.

Technical Parameters

Filling head	20 heads
Filling volume range	200-250000ml
Production speed	≤4000 Bph basis on 1000ml bottle
Voltage	220v/380v
Power	3.0kw
Suitable bottle's diameter	Φ40mm-Φ100mm
Filling error	≤±3%
Work pressure	0.55Mpa-0.65Mpa
Size	2800mm × 1400mm× 2500mm
Weight	1000kg