

Rayeman Automated Tub Press System

Rayeman Elements' unique, patented **Automated Tub Press System** technology and equipment produces 200-pound Supplement tubs, also known as Lick Tubs, without the use of binders or limiters. Consumption rate is controlled solely through the density of the product in the tub. Vitamins and minerals may be added as required or requested by the market.

The **Rayeman Automated Tub Press System** is powered by an extruder which conditions the dry distillers or brewers grain, drops the grain into a weigh hopper, and then fills the empty tub and top hat for pressing.

The tub travels via conveyor to a pressing station, where the grain is compressed by a hydraulic ram at a preset pressure. The hydraulic ram maintains the pressure on the tub until the material has hardened. Once hardened, the tubs are again weighed, and shrink-wrapped for storage.

This unique system has the capacity to operate at a minimum of 60 tons/day.

Automated Tub Press System



Robotic Arm



Tub Press Station



The advantages of the **Rayeman Automated Tub Press System**

- delivers a pre-defined rate of feed to the subject, controlled by density
- maintains the highest nutritional values in the grain
- maintains stability during shipping, with zero loss from manufacture to dinner
- billet will not fall out if the tub is kicked over

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Additional benefits of the Rayeman Automated Tub Press System

- can be used in conjunction with the Rayeman Compression Dryer, or with your existing dryer system
- the opportunity to diversify your revenue stream
- high profit margin
- improves and expands current market segments
- rapid return on investment

System Performance

This system will demonstrate the effectiveness of producing Supplement Tubs, unique in the market, at a rate of 60 tons per day, or greater, which commands a premium price due to a consistent consumption rate and the lack of additives or limiters, while delivering the highest nutritional value.

Finished Supplement Tub



Ready for Shipping



Configurations

The **Rayeman Automated Tub Press System** is designed to be flexible, dependent on desired output. The hydraulic stations are hooked up in series, with tubs being distributed to stations via conveyors. The number of hydraulic stations can be increased or decreased depending on the output requirements.

Calculations based on:

- Input - Dry Distillers Grain at 12% moisture content on average
- Operating cost - \$3.99/ton @ \$0.07/KWH = 57 KW/ton

Output Capacity/day	Press Stations
60 tons	5
72 tons	6

At Rayeman Elements, we strive to be the leaders of the industry not only for our technology and innovations but for our dedication and commitment to you.

Please contact us for more information, and to discuss your project requirements.