

Rayeman Automated Tub Press



Unique Automated Tub Press Technology



INTRODUCTION

Rayeman Elements' unique, patented Automated Tub Press System (ATPs) 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 screws in the barrel compress and release the material several hundred times from the beginning to the end of each zone, conditioning the grain into a compressible state, preparing it for pressing.

Exiting the conditioner, the material drops into a weigh hopper, which then fills the empty tub 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 been sufficiently densified within the tub.

The tubs cure/harden for 24 hours, are shrink-wrapped and stacked for storage.

PERFORMANCE

This system will demonstrate the effectiveness of producing Supplement Tubs, unique in the market

- At a rate of 24 tons per day, or greater
- Commanding a premium price due to the consistent consumption rate and the lack of additives or limiters
- While delivering the highest nutritional value.

FLEXIBILITY

Rayeman Automated Tub Press Systems are designed to be flexible. 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 output requirements.

BENEFITS

- Delivers a pre-defined rate of feed to the animal, controlled by density
- Maintains the highest nutritional values in the grain
- Maintains stability during shipping, with zero loss from manufacture to feeding
- Billet will not fall out if the tub is kicked over

Rayeman Automated Tub Press



Additional Benefits

- The opportunity to diversify your revenue stream
- High profit margin
- Improves and expands current market segments
- Rapid return on investment



Specifications – presented as examples

Type of Tub Press	Rayeman Automated Tub Press System with Press Stations	
Screw Diameter	135mm	160mm
Type of Material	“Meal”	DDGS
Output Capacity	1 tons/hr., 24 tons/day	3 tons/hr., 72 tons/day
Number of Tub Press Stations	1	5
Electrical Requirement	480v to 460v 60Hz Three phase – 750 amps	480v to 460v 60Hz Three phase – 1,000 amps
Automated Feature	Automated Filler, Conveyance to Press Stations Conveyance to Manual Palletizing and Wrapping	

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. Rayeman Automated Tub Press Systems are customizable to meet your specific product and capacity. Please contact us for more information, and to discuss your specific project requirements.

Rayeman Elements, Inc.
320 Gateway Drive
Berthoud, CO 80513

Phone: +1 (970) 344-4776
Email: info@rayemanelements.com
www.rayemanelements.com