

# PELLETING PRESS

## TYPE PALADIN 2000BM



### **Pelleting section – general description**

The Paladin is of a sturdy, self contained design, with a combined V-rope and toothed belt transmission, provided through a balanced twin drive system. The design of the mainshaft allows applying of maximum torque on the pelleting section. These features make the Paladin Pelletmill range a universal adaptable machine whereby maximum reliability is provided under all working conditions.

### **Twin Drive**

The twin drive ensures a smooth operation with low levels of vibrations. Lifetime of mainshaft is ensured because of the symmetrical load due to the two intermediate shafts driving the main toothed wheel. The die-speed is chosen based on the application. In case adjustment of speed is required the easy accessible pulleys can be changed.

### **Hydraulic system for Twin-Drive and Brake on Mainshaft**

The V-belts of the two drives from the main motors are automatically tensioned with hydraulic cylinders. This system is also used to fixate the mainshaft with a special designed brake system. In the event that the mainshaft is turned due to overload it takes minimum downtime to position it in the original position. It also allows the operators to position the rollers in other positions for maximum efficient feed-distribution.

### **Symmetrical Die with tapered fit**

The Paladin vertical ring-dies are all fully reversible. The correct number of bolts is applied for having a very sturdy fit which easily can be (dis)mantled.

### **Pelleting Chamber**

For reducing the noise level all paladin doors are doubled skinned. The inlet has a pneumatic operated bypass which can be used for overload protection as well. Each paladin is standard equipped with an adjustable knife assembly. The roll-head is either in 2- or 3-roll design depending on the application. Through 40 years of experience the design of the front-plate has lead to a system with deflectors ensuring maximum feed-distribution.

### **Electrical system**

The paladin is equipped with all necessary switches and sensors to allow a safe controllable operation of the machine. Except for the two Main-motors all of the electrical items in the Paladin are connected centrally into one Box.

### **Hoist for exchanging dies and rollers**

The paladin standard equipped with a heavy duty retractable bar inside the housing. When rollers and/or dies are in need of exchange they can be lifted easily with the special tools. By means of loosening the brake on the mainshaft the rollers can easily be positioned centrally below the hoist.

### **Accessories:**

- Electric motors
- Set of tools
- Rolls with profile suiting the application
- Automatic greasing with flow control
- Electro pneumatically controlled grease lubrication system

