The authentic and sturdy Paladin design is constructed with a balanced twin drive system, where the transmission consists of a combination of V-belts and a toothed belt. The design of the main shaft and rotor allows maximum torque to be applied in the pelleting section. These features make the Paladin pellet mill range universally adaptable machines, ensuring that maximum reliability is provided under all working conditions.

The twin drive ensures smooth operation with low levels of vibrations. Furthermore, the twin drive provides a symmetrical load on the main shaft. The symmetrical load is provided by two intermediate shafts driving the main toothed belt pulley and ensures a long life time for the main shaft. The die speed is chosen based on the application. If the die speed needs to be adjusted, the easily accessible V-belt pulleys can be changed.
### TECHNICAL DATA

**Paladin 800**

- **Die inside diameter:** Ø650 mm
- **Effective die width:** 110/141/175 mm
- **Effective press area:** 0.23/0.29/0.36 m²
- **Roller diameter:** Ø298 mm
- **Maximum motor:** 2x90kW
- **Total weight (incl. 2x90 kW motor):** ~4200/~4500 kg

**Basic machine includes**

- CE - approval
- Dual stage belt transmission
- Pellet chamber with bolt on universal hinge and universal door lock assembly
- Prepared for automatic lubrication
- 2 cutting knives
- Mechanical belt tensioning & overload protection

**Features**

- **Rollers:** 3 roller manual adjustment
- **Feeding system:** Pneumatic dump chute bypass with magnet
- **Die crane:** Manually operated
- **Tool kit:** Maintenance tool kit containing torque wrench, hand tools, lifting tools etc.
- **Control voltage:** 24VDC
- **Ventilation:** Fan mounted on the side
- **Belt tensioning:** Hydraulic belt tensioning with overload protection

**Gearing**

- **Freq** | **RPM** | **Die speed**
  - **50 Hz** | ~1490 o/min | 5.4* - 6.05 m/s
  - **60 Hz** | ~1785 o/min | 6.52* - 7.25 m/s

*Some of the low die speeds are not available for high output motors

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