



Escher Mixers Exclusive Premium Drive System

Principle of Escher Premium Drive System compared to standard drive system:

§ A typical spiral drive system has the small diameter motor pulley delivering power to a large diameter spiral pulley. With the close proximity between the two pulleys the angle at which the V belts make contact with the motor pulley is very open and therefore only a small percentage of the motor pulley is in contact with the V belt, or around 5cm of belt length.

The **Premium Drive System** uses a set of reduction pulleys to achieve similar overall gearing but all the pulleys are a lot larger diameter with reduced V belt angle and therefore the V belts have a large contact surface area, around 20cm of belt length.

Benefits of Escher Premium Drive System:

§ The **Premium Drive System** has a dual belt drive mechanism whereby the drive is split between two sets of drive belts with all pulleys getting maximum surface area contact and resulting in **25% more power** being delivered to the spiral tool.

§ The Premium Drive System is specifically engineered for **stiff dough's** and **intensive use**. **Bowl overloading** is easily handled: customers are used to overload the bowl in order to increase the production per hour; with Premium system the mixer can easily mix without compromising the quality of the dough and the machine itself. **Save the motor**: the two step transmission allows the motor to work homogeneously without slowing down or shocks. Less RPM of the spiral (1st speed: 80 / 2nd speed: 160) and 12 RPM only for the bowl guarantee a **better and cooler dough** (RPM are also adjustable according to customer's dough needs).

§ **No belts slipping** when mixer is under stress. Consequent of this is a longer life of the belts.

§ **Premium Drive System is the only reliable solution for 60Hz motors.**

In fact a 60Hz motor has generally higher RPM but lower torque compared to a 50Hz motor. Therefore, our system is a solution for both cases.

Picture of Escher Mixers Exclusive Premium Drive System

