



Product Information

EPIC ENTERPRISES, INC.



YARN TENSION CAPSULES FOR VOLKMANN

The capsule is used in conjunction with the tension device by placing more or less tension on the yarn. Position one (1) on the tension device puts the most tension on the capsule with the higher numbers putting less tension on the capsule.

Capsules are numbered beginning at zero (0) for the lowest tension spring. As the numbers increase, so does the internal spring tension. At one time, capsules were manufactured with rings on the upper cap. The number of rings corresponds to the same tension as the numbered capsules (Ex: Two rings = the number "2" Capsule). To our knowledge, capsules are no longer manufactured with rings. At one time, there was a straight capsule. Again, to our knowledge, the straight type capsule is no longer being manufactured and has been replaced by the bulb type for Volkmann machines.

There are two basic designs of capsule: Manual and Air.

The manual capsule is referred to as a bulb type and requires a threader to run the yarn from the feed package through the tension device and pot to start twisting the yarn. It is used on the single, double and manual type tension devices as shown on right.

The air capsule is referred to as a mushroom capsule because the top part of the capsule has a larger mushroom profile than the bottom. It is used in air tension devices as shown below. There are two mushroom capsule designs – flat and round. See photos below. Typically, the rounded head are used on Volkmann Series BA3/BA4/BA5/BA6 and BA8 machines. The round capsules for the BA3/BA4 differ in spring tension from the round capsules for the BA5/BA6/BA8. The flatted head is the original design used on Volkmann Series BA3 and is normally available only upon special request. Trials should be run to determine which design works best for your operation.

The capsule is your main source for controlling the rate of yarn being pulled from the feed package. Controlling the rate of yarn from the feed package is how you regulate the wrap of yarn on the reserve disc. The amount of wrap should be 360°-540° of yarn around the reserve disc on a full package to 90°-180° on a feed package as it runs out. Maintaining the proper amount of reserve ensures the correct TPI (turns per inch) in the yarn.

Capsules are sometimes referred to as: cartridges, bullets, tension capsules, or thread brake capsules.

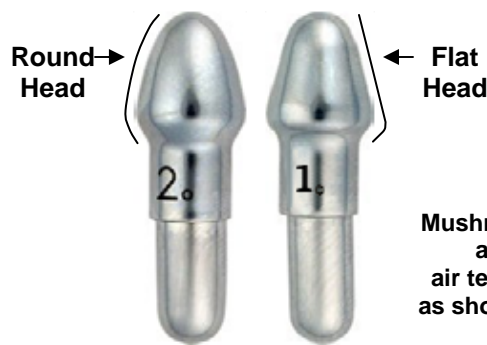
Bulb Type Capsule



The bulb type capsule is used on double, single, and manual tension devices as shown below:



Mushroom Capsules



Mushroom Capsules are used in air tension devices as shown to the right



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