

#### **2.3.2.4. Important Points to Pay Attention when cutting with Vertical Blade Cutting**

The cutting quality of a vertical blade cutting machine depends on the following criteria:

- Shape of knife
- Sharpness of the blade
- Material of the knife
- Cutting speed of the blade

The friction heat formed on the blade side in the cutting of synthetic fabrics may cause melting of the cut edges of the fabric layers. In order to prevent this, a gear reduction box should be installed which halves the speed of the blade.

The heavy engine and the surrounding operation device are located on a thin foot, making it difficult for the machine to stabilize. Therefore it must be used with caution.

In order to reduce the vibration of the machine, it is appropriate not to use the cutting of fabric heights less than three quarter of the cutting capacity.