

2.3.1 Round Blade Cutting Engine

It is a machine that provides the spin of the blade by moving the helical gear and horizontal knife shaft which is at the end of the vertical motor shaft by the operation of the electric motor. It has an internal self-sharpening device.



Picture 2.4. Round Blade cutting Engine

There is a round sharpening stone on the machine that is close to the blade to be used when needed.

- **Oil mat:** It is used to prevent adhesion of synthetic materials or friction material to the blade and to reduce friction.
- **Counter knife:** It is a knife to prevent the upper knife from removing the fabric under the fabric cutting..
- **Scissor carrying tray and wheels:** The base allows the scissors to stand upright and the casters help to move the machine to the desired directions.
- **Safety shield :** It is a very important safety device which must be lowered to the height of fabric during cutting in front of the knife.



Picture 2.5. Quilting cut with round blade cutting engine