HOW A COMBINE WORKS

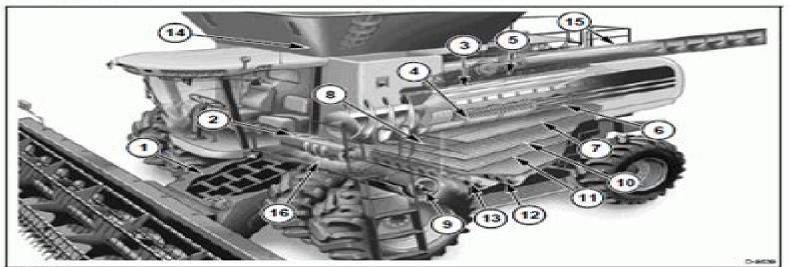


FIG. 32
FIG. 32: Four functions are done in the overall harvesting operation of a combine. These are:

- Cutting and Feeding
- Threshing
- Sieparating
- Cleaning

Cutting and Feeding

The crop is gathered by a header which is supported by a feeder housing.

The grain header uses a reel to direct the crop into the header auger after the crop is cut by the knife and the header auger conveys the crop into the feeder (1).

When a pickup header is used, the crop, already out and laying in a swath, is lifted by a pickup and fed to the header auger where the retractable fingers move the crop into the feeder.

The feeder elevator transports the crop to the front of the accelerator beater (2) which moves the crop to the rotor inlet area and the rotor (3). The feed beater also guides rocks and other foreign objects into the stone trap (16) located forward and below the beater.

Threshing and Separating

The rotor does four functions as the crop moves in rotary motion from front to rear:

- Imitalité
- Threshing
- Separating
- Discharge

The auger flighting in the intake area starts the crop on a spiral route around the rotor and moves the crop to the threshing area.

Threshing and initial separation are done in the threshing zone as a result of relationship between the rotating cylinder bars and the stationary open grate concave (4). Contact with the helical guide vanes (5) causes the material to move rearward and in a circular route, letting the material pass over the concave several times.

Remaining separation occurs in the separating section. Centrifugal torce cames the grain and chaff through the grate (6) while the straw moves rearward in the rotor cage. Again, the spiral motion of the crop lets the crop pass over the separating grates several times.

Cylinder bars on the rotating rotor hold the crop against the grates until the crop reaches the end. Paddles then bat the material into a discharge chute where the crop is moved to a straw spreader, chopper, or discharged directly to the ground.

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