

## The Tractor Compaction Rollers for Silage Clamp

High-quality silage is essential for maximizing meat or milk production, maintaining livestock health, enhancing fertility, and increasing profits. The quality of silage depends on several factors, including crop type, maturity, chopped size, moisture content, storage duration, temperature, additives, and silage management. Among these factors, **compacted density** significantly impacts silage quality under similar conditions:

- **Higher density** results in:
  - o Reduced air content
  - o Increased lactic acid bacteria
  - o Minimal dry matter loss
  - o Improved palatability
  - o Enhanced feed intake

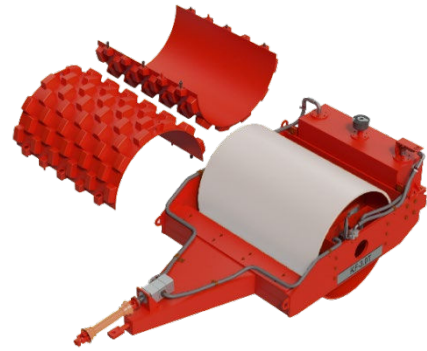
Statistics reveal that insufficient silage density can lead to **over 20% dry matter loss**. In severe cases, an entire silo of feed may need to be discarded. The density of ensiling varies based on the **dry matter (DM)** of the silage and the height of the clamp. For instance:

- Whole crop silage typically has a density of **550-650 kg/m<sup>3</sup>**.
- Maize silage, on the other hand, boasts a denser **750-800 kg/m<sup>3</sup>**.
- In well-compacted clamps, the maximum density can reach up to **950 kg/m<sup>3</sup>**.

DM for Grass,%	Height of clamp, m			
	2.0	2.5	3.0	4.0
20	780	840	890	950
25	690	730	775	830
30	620	660	690	740
35	570	600	625	670
40+	520	550	570	610

When compacting silage, tractors are commonly used to compress the material. However, this process can be time-consuming and may not achieve the required density even with added ballasts and water.

**Our tractor compaction roller offers an effective solution.** At **K&F Machinery Co., Ltd.**, we draw upon our extensive experience in roller design and manufacturing to create a range of specialized tractor rollers. These rollers feature a large-amplitude, high-frequency vibration mechanism that significantly **increases compaction density**. When combined with the weight of the tractor and the compaction roller, this ensures the production of **high-density, high-quality silage**.



Our tractor compaction rollers have already made their mark in various markets, including **North America, South America, and Southeast Asia**. They form an excellent partnership with a variety of tractors, such as **Massey Ferguson, New Holland, Case, and DEUTZ FAHR12**.



If you are interested in customizing, purchasing or consulting, please feel free to contact us

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