

# Spinning Riffle Divider Plant Type SRD

The **Spinning Riffle Dividing Plant** is used for representative division of material. The Divider can be provided with up to 16 sample pans. The Dividing Plant can be installed in conjunction with a sampling plant or placed completely independent of the sampling operation.

## General Description:

The material is extracted from the feed-hopper by a step-less adjustable vibration feeder and dosed into the Sample containers, placed on the spinning table. The material is led by gravity into the sample containers. The spinning table with the sample containers rotates constantly, with 12 rpm.

The feed rate is adjustable by variable amplitude 200 watt vibration feeder and by the positioning of the exit gate in the hopper. The gate is adjustable from 0 – 150 mm.

The divided samples are collected in sample containers. Each container has an overlapping deflector lip on one side to form cutting edges and prevent loss of fines.

The Dividing plant is available for powder and bulk materials with up to 50 mm corn size.

The Dividing Plant consists essentially of following units:

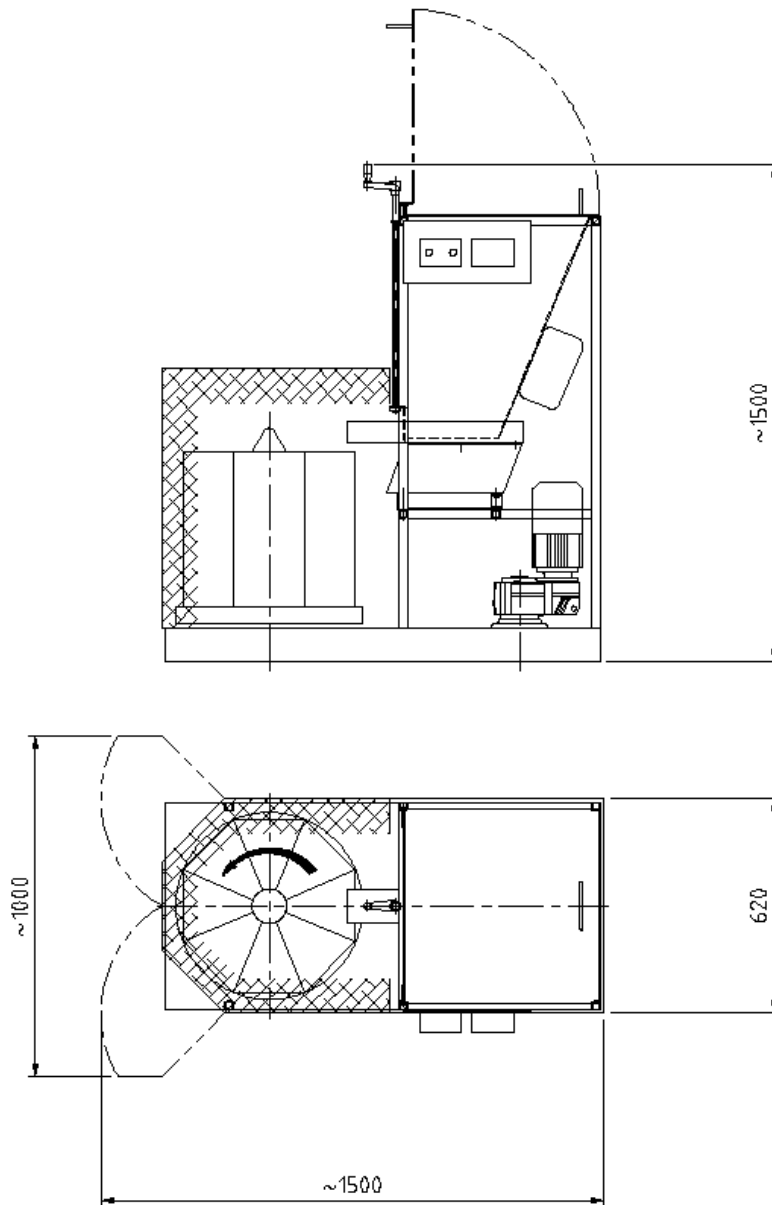
- Feed hopper ~50 litre.
- Vibration feeder.
- Spinning table for sample containers.
- Supporting steel structure.
- Safety guard around the spinning table. With doors for emptying the sample containers.
- Electrical control box with feeder- and vibration control, 230/400 V, 50 Hz.
- 8 Sample containers ~7 litre each (standard).

All parts of the Dividing Plant are manufactured from stainless steel (AISI 316 / 304), except the steel structure, which is painted mild steel.

## Options:

- The divider can be provided with a knocker on the feed hopper, used e.g. by moist material.
- Sets of 4, 6, 12 and 16 sample containers according to customer requirements.

**Principle Sketch:**



**Drive:** Vibration Feeder: 0.2 kW electro magnet  
Divider: 0.25 kW helical geared motor / V-belt drive

**Voltage:** 230 / 400 V, 50 Hz



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