

# Rotating sieve

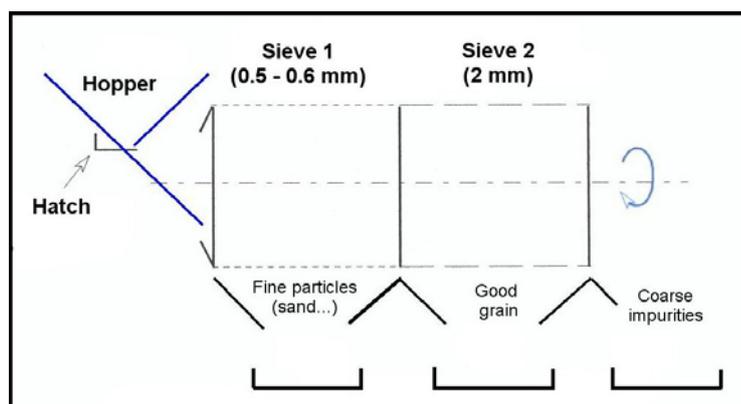


Diagram of rotating sieve (© Cruz *et al.*, 2016)



Rotating sieve (© M. Rivier, Cirad)

## General description

Specifically conceived to remove the larger or smaller impurities of the grains, the rotating sieve consists in a frame, a hopper, a perforated drum for sieving, a cap to protect from dust and projections and a whole of metal sheets to guide the products towards the collecting bowls.

## Functioning

A trommel with an horizontal axis slightly tilted and manually moved consists in two successive sieves: the first sieve retains the grains and lets pass the fine impurities, the second sieve lets pass the grains and retains the foreign bodies of a greater size than the grains.

The trommel is filled with rough material by a hopper equipped with a exit door to adjust the flow. After sieving, the impurities and the grains fall in bowls under the machine. The trommel is tilted of about 1.5° to ensure the longitudinal progress of the products.

## Technical specifications (for the short version):

Throughput : 150 - 300 kg/h

Driving: manual (hand crank) or motorized (<1 kW)

## Specific adjustments and use conditions for fonio

Rotation speed: 30 to 45 rpm (manual), 40 rpm (motorized)

Screen of the first sieve: 0.5 mm for hulled fonio, 0.6 mm for fonio paddy

Screen of the second sieve: 2 mm

In order to limit quantity of grains in the impurities outlet, it is necessary to pass once more the part of large impurities recovered.

The sieves are removable.

With different types of screen (larger perforations), the sieve can be used to clean other cereals.

## Manufacturers (different possible suppliers locally, for example)

**SIPS Sarl**, BP 202, Bamako, Mali. (Director : Abdou Kipsi DIOP)

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**Approximate price:** FCFA 650.000 (manual) to 1000.000 (with electric motor)