

«GMBF» fonio huller



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GMBF fonio huller manufactured in Bamako (on left: diesel version, on right: electric version)

General description

Specifically conceived for the hulling and the whitening of fonio, GMBF huller consists in a hulling module with a hopper, a winnowing channel, a fan, a cyclone and an engine. There are two versions with an electric motor or a diesel engine.

Functioning

The operating principle of the GMBF huller (Engelberg type) is to cause a friction and a shearing under pressure between the grains and the stator and the rotor surfaces in order to remove the grains teguments and husks. The rotor screw create the pressure and the shearing is obtained by an interaction between the right veins of the rotor and the blade-brake that retains the grains. The hulling and whitening intensity is adjusted by opening more or less the exit door.

Grains and husks (and bran) fall into the winnowing channel to be separate there. The grains fall into a bowl placed under the channel whereas the impurities are sucked by the winnowing airflow and they fall into the bowl under the cyclone.

Technical specifications

Output: 100 to 120 kg/h for hulling, 110 to 150 kg/h for whitening

Engine: Electric: 7.5 kW, Diesel: 8 to 10 kW

Weight: about 200 kg (electric version) and 320 kg (diesel version)

Hopper capacity: 35 kg

Possibility of purchasing the huller electric version with a separated winnowing channel

Specific adjustments and use conditions

Huller rotation speed: 900 rpm

Fan rotation speed: 2400 rpm

Hulling and whitening rate: adjustable using the exit door

Manufacturers:

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

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Approximate price: Huller with a winnowing channel (+ on-site installation and training)

FCFA 1 500.000 with electric motor

FCFA 1.800.000 with diesel engine