

# Pellets cooker

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[https://wiki.lowtechlab.org/wiki/Cuiseur\\_%C3%A0\\_pellets/en](https://wiki.lowtechlab.org/wiki/Cuiseur_%C3%A0_pellets/en)

Dernière modification le 27/06/2024

 Difficulté Moyen

 Durée 4 heure(s)

 Coût 250 EUR (€)

## Description

Cooker using pellets, walnut shells and probably other types of bulk material, with a 3-hour autonomy.

# Sommaire

## Sommaire

Description

Sommaire

Introduction

Étape 1 - Sheet metal cutting

Étape 2 - Gastronorm cutting

Étape 3 - Tank construction

Commentaires

# Introduction

Cooker for community, event or fairground catering using pellets, wood or certain bulk materials

Because of our geographical location, we use walnut shells to make it work. We still need to do measurements with RCW (large cross-section, otherwise the fire will burn too quickly) and fruit pits (olives, cherries, etc.).

Unlike traditional pellet stoves fed by an endless screw, the pellets are poured into a reservoir and lit from above using a fire starter: this principle requires no electronics or electricity.

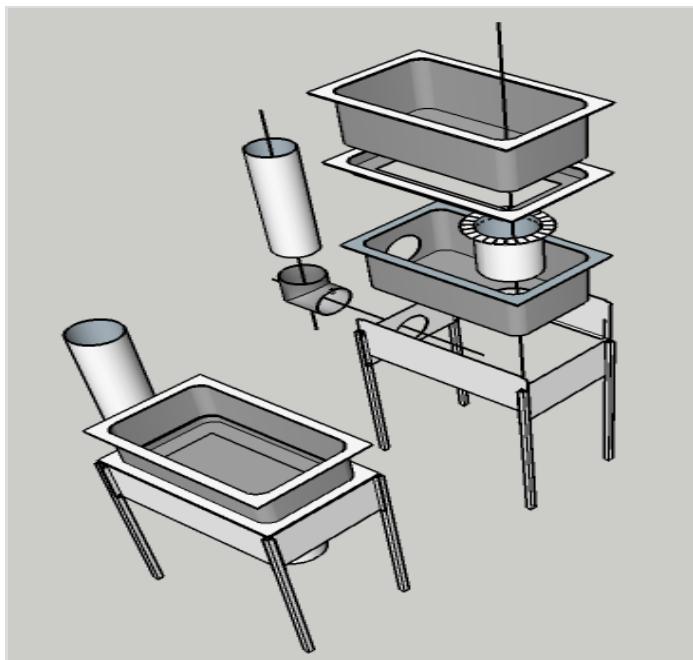
The large tank provides 3 hours of autonomy, the small tank 1 hour.

You can build in a 1/1 gastronorm (28L, for cooking inside or as a bain-marie), or place a ceramic hob (plancha or crêpe pan) or a vat (2/1 48L gastronorm, used for pasteurisation, sterilisation and bain-marie) on top.

You can also replace the support plates with a metal garden table into which you fit the fireplace.

After several years in existence, the model presented on this site has evolved into a version without the purchase of materials, as the latter were a hindrance to the creation of this cooker. A TUTO is available to present the new version.

Modifications have been made to this model: the 4cm gastronorm shown in the photos and diagrams below has been replaced by a 15cm gastronorm, bringing the bowl closer to the fire and increasing power.



## Matériaux

- 1 gastronorme 1/1 20cm
- 1 gastronorme 1/1 15cm
- 1 90° elbow 125mm
- 1 alumina tube 500X125mm
- 4 sheets 2MM
- 1 community can 150mm
- 1 tube 330X150mm
- 4 square tubes 15X15X600MM
- 1 pin
- Self-drilling screws

Doesn't include the bowl on top

## Outils

Grinder, sheet metal shears, drill and screwdriver



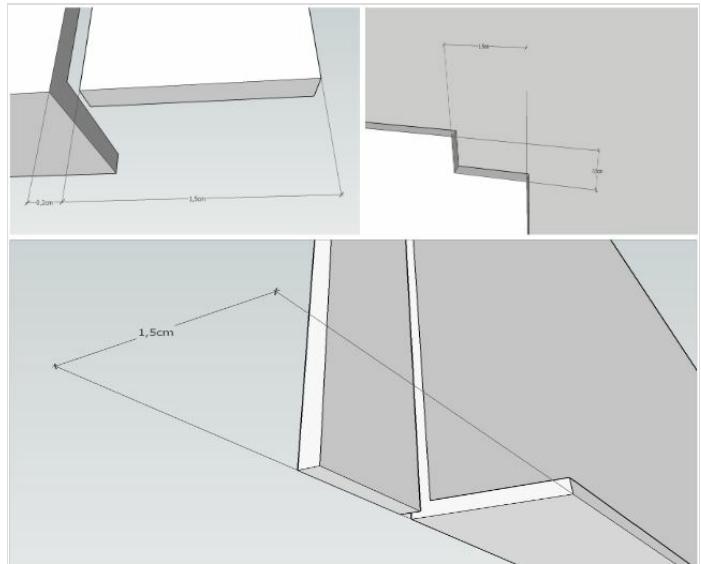
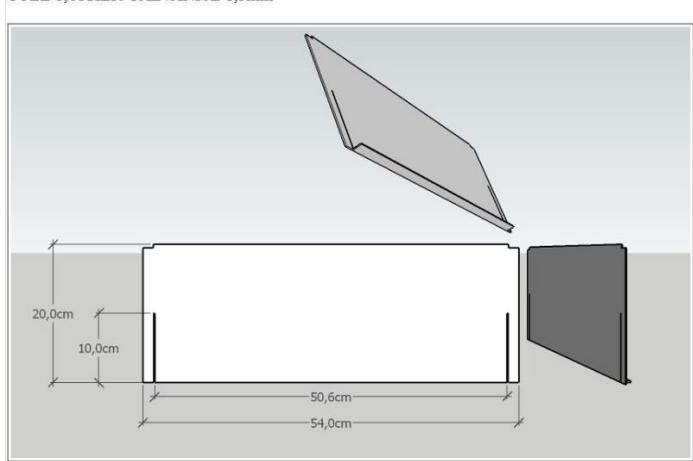


↗ <https://www.dusoleildansnosassiettes.com/plans-cuiseur-collectif-pellets>

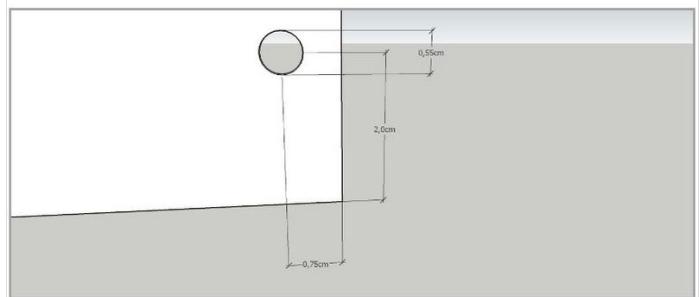
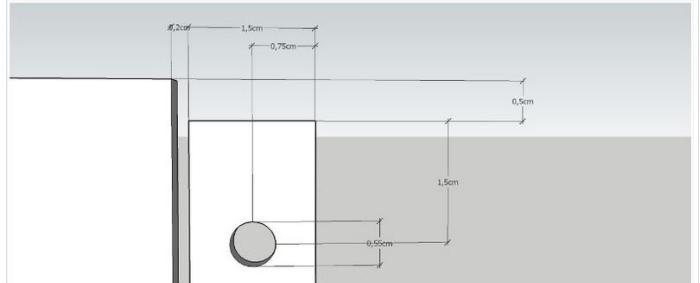
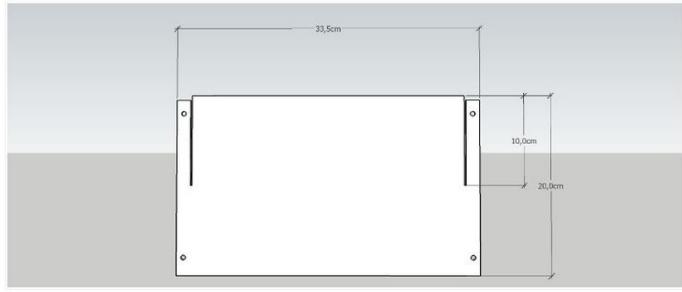
## Étape 1 - Sheet metal cutting

- Cut out or have cut out by a boilermaker the 4 sheets according to the attached drawings: 1, 2, 3 (refer to the link at the bottom of the page if the plans are not opened)
- Screw the feet on

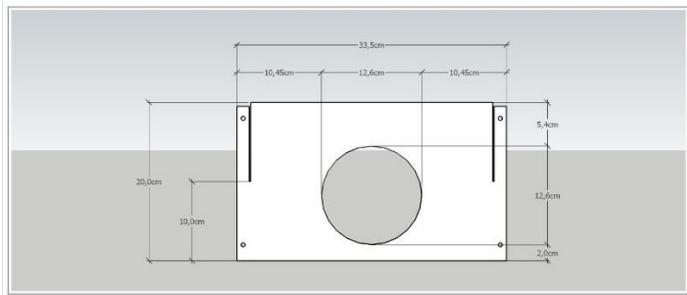
TOLE 1, ACIER GALVANISE 1,5mm



TOLE 2, ACIER GALVANISE 1,5mm

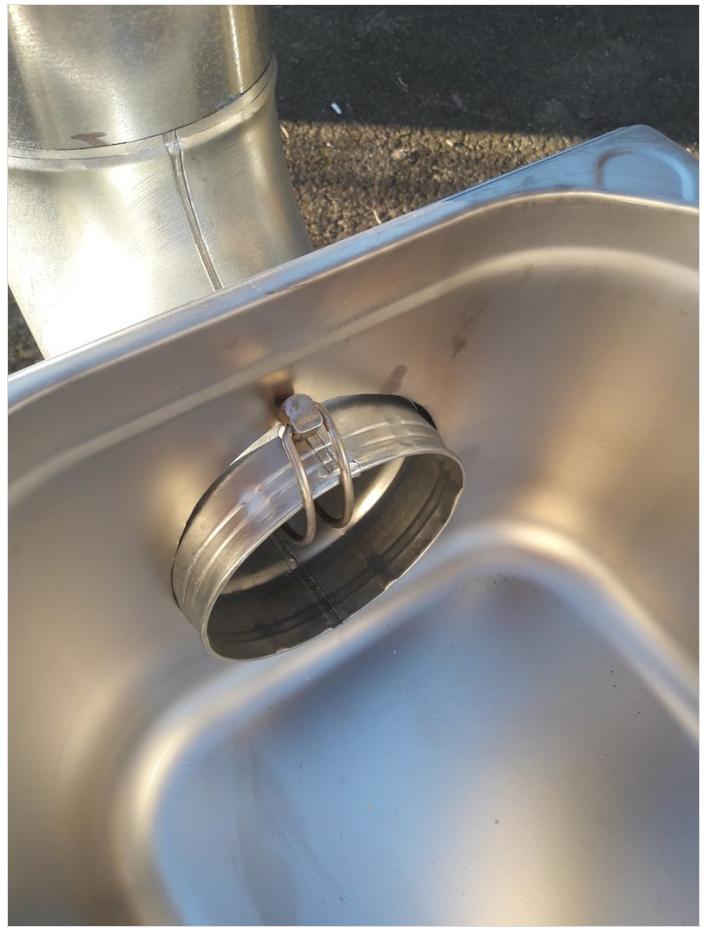


TOLE 2, ACIER GALVANISE 1,5mm



## Étape 2 - Gastronorm cutting

- Cut out the gastronorms using sheet metal shears (duct hole: just over 125mm and tank hole: just over 150mm).



## Étape 3 - Tank construction

- Assemble the large pellet tank using the self-drilling tools, cut the collar using the sheet metal shears and then drill the small and large tanks as follows:
  - Lower air holes: 30 x 8mm holes
  - Top air holes: 15 x 8mm holes

