



CEREX

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CEREX

THE MACHINE

The CEREX grain processor is a food processor which converts untreated grain, pellets and mixes of grain and/or pellets into a slice/cake/biscuit/cracker in one operation without the need for further treatment.

PROCESS DESCRIPTION

- The grain is fed through a hopper, volumetrically metered and introduced by a feed-slide into the mould.
- The mould closes, crushing and baking the grain for a short period, after which a little opening is created to enable the expansion of the grain or pellet and thus forming the cake.
- The slice is ejected onto a conveyor, which leads the slices to the flavouring and/or packaging area.

THE RAW MATERIAL

The CEREX grain processor processes three basic grains solely or in mixtures: rice, wheat and corn and also a considerable number of pellets, like gelatinized wheat, rice pellets etc. To these grains, other material like buckwheat, millet, rye, oats, barley, soy... can be added up to 25-30%, some grains over 50%. Even when broken grains are used, a nice slice can be produced, hardly different from a cake made with ordinary rice.

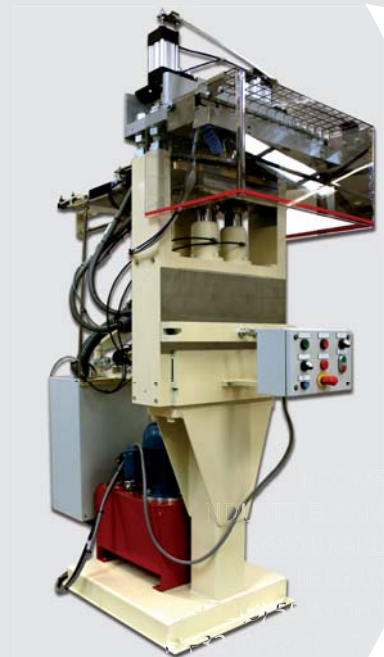
PREPARATION

No extensive pretreatment of the grain is needed, but some moisture adjustment can be beneficial for the product. A simple addition of a percentage of water in a receptacle and some mixing does the job!

FLAVOURING

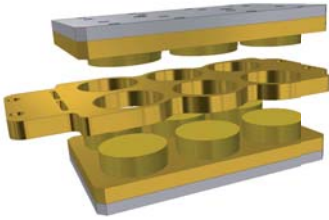
Heat-stable flavors or salt can be added before the baking, though this tends to increase the necessity and frequency of mould cleaning.

Spraying and/or dusting afterwards is advised.

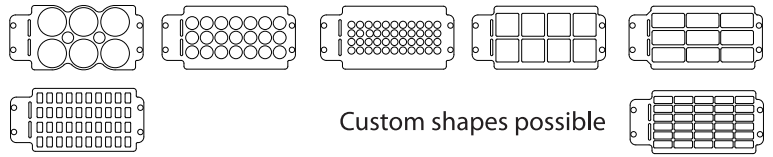


DIES OR MOULDS

The three part moulds, consisting of separately heated upper and lower mould parts and a pneumatically driven ring, are designed to reduce sticking and thus cleaning time. The dies are protected with a titanium coating.



Preview of some existing shapes

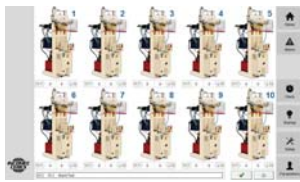


PLC & HMI

B&R is a European manufacturer of our PLC's which is producing high quality industrial electronics.

- There is no main PLC provided. Each of the machines has its own small PLC which are all linked to a CAN-Open bus.
- One display is provided for each line of max 10 machines, which enables to program the individual machine parameters.

Each machine is separately controllable and adjustable via a separate PLC.



MACHINE OUTPUT

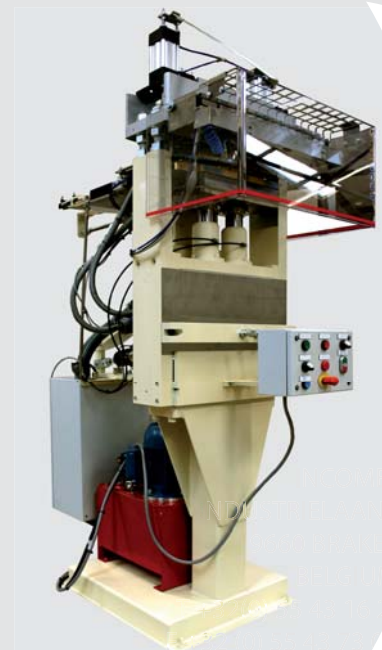
Output capacity depends on:

- grain or grain-mix or pellet being processed
- desired weight of the finished product
- desired appearance of the finished product

All these elements have an impact on the processing time and therefore a more exact calculation can only be made once the raw material and end-product have been defined and tested. Die-set capacities can be reached with a 100% medium grain brown rice.

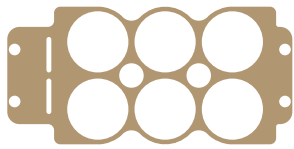
TECHNICAL DATA

Power Consumption	260/480V, 50-60Hz - max consumption 8 kwh
Heating	6-8 heating elements 1250W/220-230V
Compressed air	From 7 to 9 BAR 115NI/min Clean, dry and free of oil
Dimensions	Width : 640 mm Depth : 1200 mm Height : 1950 mm Weight : 750 KG



6-LR

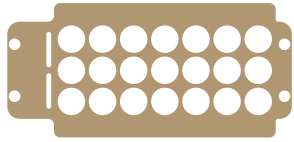
round cakes



Dimensions	90mm - 100mm
Weight	7 to 11 gram
Cakes per cycle	6
Output per hour	Up to 1900 pieces

21-MI

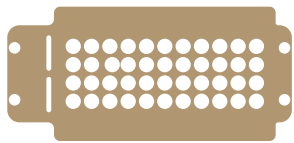
round cakes



Dimensions	40mm - 45mm
Weight	0.5 to 2.0 gram
Cakes per cycle	21
Output per hour	Up to 7560 pieces

44-MB

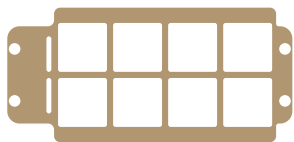
round cakes



Dimensions	25mm diameter
Weight	0.5 to 1.0 gram
Cakes per cycle	44
Output per hour	Up to 15840 pieces

8-SQ

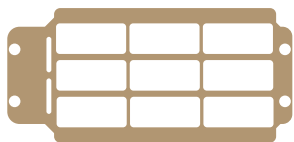
square cakes



Dimensions	80mm by 80mm
Weight	7.0 to 11.0 gram
Cakes per cycle	8
Output per hour	Up to 2880 pieces

9-BR

bar shape cakes



Dimensions	115mm by 50 mm
Weight	7.0 to 11.0 gram
Cakes per cycle	9
Output per hour	Up to 3240 pieces

30-BR

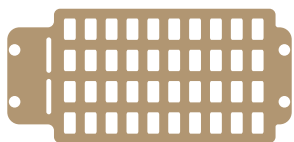
bar shape cakes



Dimensions	25mm by 65 mm
Weight	1.5 to 2.5 gram
Cakes per cycle	30
Output per hour	Up to 10800 pieces

40-BC

bar shape cakes



Dimensions	25mm by 45 mm
Weight	1.5 to 2.5 gram
Cakes per cycle	40
Output per hour	Up to 14400 pieces

CEREX

die sets

CUSTOMIZED
DIE SHAPES
AVAILABLE

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