



briklis

**Briquetting
presses BrikStar**

Hydraulic briquetting presses



The **BrikStarEk** is a new, small, cheap press with low energy consumption. It is only suitable for small joiner's shops with single-shift operation and for manual filling of material. This briquetting press is not ready to connect to exhausting system. The optimum moisture of the material being pressed is 8 to 12 %. The press is controlled by a single switch only. When material is emptied from the hopper, the programmable control system ensures that the press is put out of operation. The unique graded design of the press hopper bottom ensures optimum feeding of material into the shaft of the pressing-chamber feeder from two sides and its emptying. The square hopper possesses mechanically driven extraction rotor with five arms with defined feed. The pressing chamber is of a cylindrical shape and is closed by a firm barrier from one side. The output of the press depends on the bulk density of the material. Briquettes fall out of the pressing chamber into a provided container.

BrikStar CS presses are suitable for small joiner's shops with single-shift operation and for manual filling of material. They maintain all the decisive characteristics of BrikStar presses. They are not equipped with components for connection to exhausting system.

BrikStar presses are intended for plants with single-shift or multi-shift operation. They can be used for a broad range of materials. They are characterised by compact design, modern control and a reliable hydraulic pressing device that enables maximum compaction of the material. The automatic control of briquette quality and dosing screw in the hopper bottom minimises the fluctuation of output for the pressing of materials from very fine up to very coarse materials. The sensor of the minimum level controls automatic start-up and switching off of the machine, thereby preventing unnecessary operation of the press. The press hopper with a selectable capacity of 1, 2 or 3 m³ can be interconnected with an exhaust device into an unmanned and dust-free waste processing system. The control computer enables the press to communicate with other devices of the production line and, via a display, with the operator as well.



The **BrikStar MAGNUM 300** is the first Czech press producing square briquettes. It has been developed based on 20 years of experience of the BRIKLIS Company. It is intended for medium-sized to larger firms with multi-shift operation. The optimum moisture of material to be pressed is 8 to 11 %. The structure of the press is designed in such a way that cuboidal briquettes of identical dimensions allow easy packing of the product and its transport to great distances. The cooled die maintains optimum pressing conditions in the long term, thus the quality of the briquettes as well. Some material require the press to be equipped with a vibration damper, which will extend the action of pressing force, making it possible for material with lower cohesion to bind together better. The press hopper has a massive structure of closed profiles and is prepared for the installation of a large filtration unit. The hourly output of the press depends on the mass density of material being processed.

Special versions of presses - BrikStar CSD, BrikStar V, BrikStar C, BrikStar TWIN

BrikStar CSD presses with a unique rectangular hopper with two rotors have been developed for the Vacumobil exhaust device and they facilitate easy installation under other exhaust devices with a rectangular discharge outlet. The new version of the press hopper can also be a solution to installation in confined spaces.

BrikStar C presses with the structure of the hopper being reinforced by a robust steel frame from closed profiles are designed for installation under larger filtration units with a load-bearing capacity of up to 1200 kg.

BrikStar V presses are presses with a dosing screw without a hopper and hopper rotor. They enable to install the pressing unit and hydraulic set separately under the material storage bin with continuous discharge. They make it possible to adapt the position of the press to the dimensions of existing technology.

With **BrikStar 100 to 400** types it is possible to install a square die with a dimension of 55 x 55 mm.

BrikStar TWIN 200, 300 presses have the pressing unit with a briquette diameter of 65 mm instead of 55 mm.



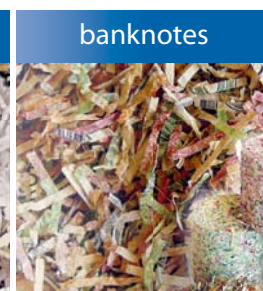
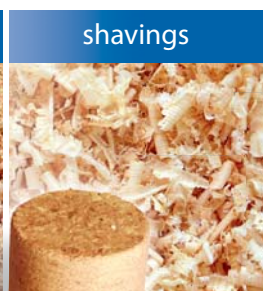
Materials suitable for briquetting

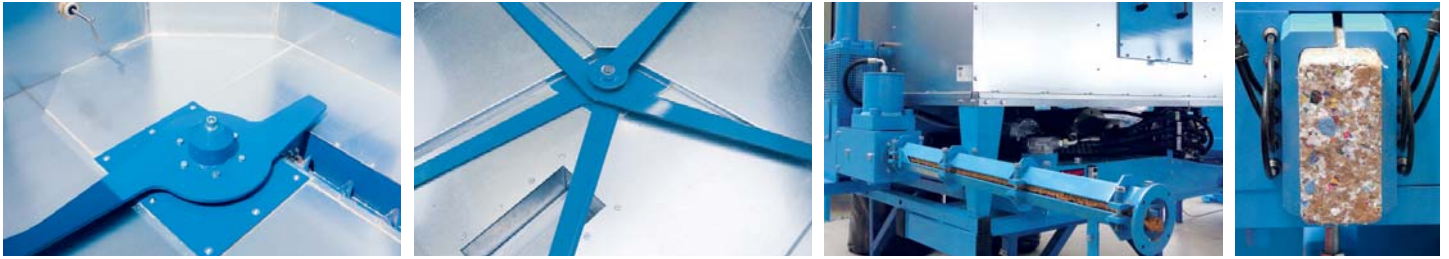
Sawdust, shavings and wood dust, crushed energy crops, straw, hay, chaff, crushed paper, cigarette tubes, polyurethane etc., all the materials also in the form of dust.

Suitable moisture 8 up to 15 %; with some types 11 % only. Dimensions of material smaller than 15 mm, for straw blade waste 30 mm, for crushed materials 10 mm in the form of chips. Other materials can be verified free of charge using a performance test which is carried out by the producer in their testing room at their own expense.

Briquettes have normally a cylindrical shape with a diameter of 55 or 65 mm, length of 30 to 70 mm, heating value 15-18 MJ/kg. They can be combusted in all types of stoves, boilers and incinerators for solid fuel combustion. Their high heating value can be used better in gasification boilers. For the approximate calculation of the capacity of a required press we can use a simplified calculation: that 1 m³ of joinery waste weighs around 100 kg. A press with an output of 25 kg/h will process 100 kg of waste in 4 hours, i.e. 1 m³. It will process approximately 2 m³ of waste in 8 hours.

MAGNUM briquettes have a cuboidal shape with dimensions of 135 x 65 x 80 – 100 mm. The cuboidal shape of briquettes is optimal for packing into PE sacks or paper bags. Small packages can be easily stacked on a pallet and well fixed by a flexible membrane.





TECHNICAL DATA

Press type	Briquette diameter mm	Output kg/hod ±10%	Installed power input kW	Level sensor	Oil cooler	Hopper capacity / press weight m ³ / kg		
BrikStarEk	62	10-30	2,4	impossible	impossible	0,6 / 385	-	-
BrikStar CS 25	65	20-40	4,4	optional	impossible	0,7 / 720	-	-
BrikStar CS 50	65	40-60	5,4	optional	impossible	0,7 / 730	-	-
BrikStar CSD 30	65	20-40	3,6	optional	impossible	0,6 / 700	-	-
BrikStar CSD 50	65	40-60	4,6	optional	impossible	0,6 / 710	-	-
BrikStar 30	65	20-40	4,4	yes	optional	1 / 780	2 / 870	3 / 960
BrikStar 50	65	40-60	5,4	yes	optional	1 / 790	2 / 880	3 / 970
BrikStar 70	65	50-80	6,9	yes	optional	1 / 840	2 / 905	3 / 1 025
BrikStar 100	65	90-120	9,3	yes	yes	1 / 1 105	2 / 1 195	3 / 1 285
BrikStar 150	65	130-160	13,5	yes	yes	1 / 1 160	2 / 1 250	3 / 1 340
BrikStar 200	55	180-220	16	yes	yes	-	2 / 1 450	3 / 1 550
BrikStar 300	55	280-320	23	yes	yes	-	2 / 1 550	3 / 1 650
BrikStar 400	55	380-420	32	yes	yes	-	-	3 / 2 500
BrikStar MAGNUM	135x65	250-500	26,5	yes	yes	-	2 / 3 060	-

Technical changes reserved; the hourly output of the press is dependent upon mass density of the material being processed. The equivalent level of acoustic noise A in the operator's workstation with the use of weighting filter A does not exceed the value of 80 dB(A).

OPTIONAL ACCESSORIES ACCORDING TO TYPES

- Sensor of the maximum material level in the hopper
- Hydraulic oil for operation at ambient temperatures as low as -15°C
- Oil cooler for multi-shift operation up to an output of 70 kg/h
- Left-hand side design of presses
- Covers for outdoor versions
- Possibility of increasing the capacity of hoppers up to 2 m³ or 3 m³
- Cooled die for special materials
- Extended die for the pressing of special materials
- Briquette vibration damper for the pressing of materials with low cohesion
- Hopper structure reinforced with a steel frame
- Filtration superstructures with a fan
- Crushers for lumpy waste
- Rotary stand for the packing and weighing of briquette into 6 or 10 bags

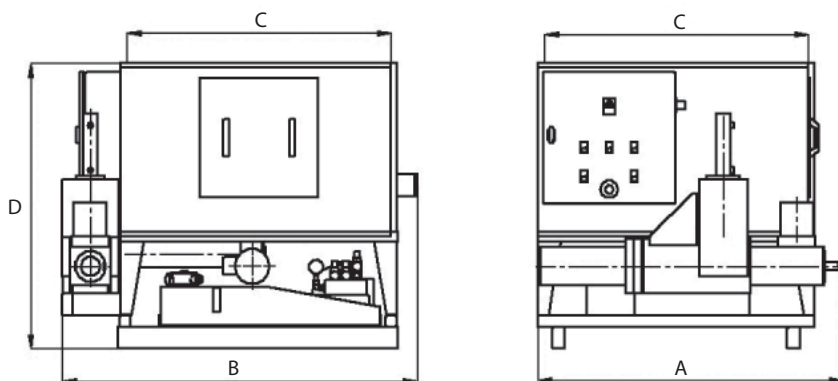


DIMENSIONS

Press type	Hopper type	Hopper capacity m ³	Dimension A mm	Dimension B mm	Dimension D mm	Hopper width C mm
BrikStarEk	-	0,6	1 060	1 395	1 140	1 000
BrikStar CS 25, 50	12	0,7	1 400	1 540	1 070	1 200
BrikStar CSD 30, 50	15	0,6	2 310	1 200	1 120	860
BrikStar 30, 50, 70	12	1	1 400	1 540	1 300	1 200
BrikStar 30, 50, 70	16	2	1 720	2 000	1 300	1 600
BrikStar 30, 50, 70	19	3	2 010	2 260	1 295	1 920
BrikStar 100, 150	12	1	1 820	1 580	1 300	1 200
BrikStar 100, 150	16	2	1 730	2 000	1 300	1 600
BrikStar 100, 150	19	3	2 010	2 260	1 295	1 920
BrikStar 200, 300	16	2	2 280	2 290	1 300	1 660
BrikStar 200, 300	19	3	2 390	2 244	1 430	1 820
BrikStar 400	19	3	4 590	2 930	1 710	1 820
BrikStar MAGNUM	16	2	2 830	2 290	1 400	1 610

MAIN ADVANTAGES

- A wide choice of outputs and accessories
- Minimum installation and maintenance costs
- Low consumption of electrical energy, motors according to IE2 standard
- Direct connection to the central exhaust system according to types
- Outdoor design for installation under a silo
- Dosing controlled by a computer
- Hopper rotor with a separate drive
- Compact design, robust pressing frame
- Easy operation, fast servicing
- Complete delivery, individual approach
- High-quality processing, 20 years of experience
- Servicing and modernisation even of older types of our presses



The asset of the briquetting technology is the production of a cheap fuel from own sources, recovery of the waste generated, reduction in the volume of material for cheaper removal and storage, and reduction in the dustiness of operation.



BRIKLIS ranks amongst traditional, modern and respected European manufacturers of briquetting presses.

Our long-term experience, a wide range of outputs and additional equipment are a guarantee of the most suitable design of the system according to your requirements. We are also able to deliver atypical equipment because we produce most of the parts ourselves in our manufacturing plant in Malšice near Tábor. We apply the principles of ISO 9001 during manufacture. We provide consulting services to those interested in briquetting and we offer free tests of briquetting of various types of waste.



WASTE IS ENERGY, WASTE IS RAW MATERIAL.

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