ARBOGA-DARENTH

SWARF BRIQUETTER

TYPES HLS AND BRIKSTAR BCM

Briquetting of swarf

• High pressure
• High capacity
**Arboga-Darenth Swarf Briquetters**

ARBOGA-DARENTH markets two types of briquetters:
- HLS for steel, brass and cast iron etc
- BrikStar BCM for aluminium and other "soft" material

**Function type HLS**
The short chips are fed to the briquetter by means of for example a steel belt conveyor to the receiving hopper on the feeding screw. The screw feeds the swarf into the inlet chamber, where a cylinder feeds the swarf in the correct quantity. At first pressing is made by the piston on the one side of the press. Final pressing is made by a cylinder on the opposite side. Separated coolant is collected in a tank equipped with pump and level gauge. The ready briquettes are automatically fed into a chute to a bin or to a conveyor.

**Function type BCM**
A hydraulic briquetter is perfect for briquetting of short swarf of light metals of type aluminium and magnesium. The briquetter is equipped with a bunker of 1-3 m³ depending on type. The bunker is fed by a truck, skip hoist or a conveyor. The bunker has two arms with cutters which are rotating in the bunker and feeds the swarf into a box with screw which forwards the swarf to the press chamber. The briquetter is pressing with a pressure of 83 MPa. The briquette diameter is 60 mm.

The outfeed of ready briquettes is made on a height of 940 mm. The briquetter is automatically controlled from the electric cabinet.

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### Technical data Arboga-Darenth Briquetters type HLS and BCM

<table>
<thead>
<tr>
<th></th>
<th>HLS</th>
<th>BCM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press power</td>
<td>310 MPa</td>
<td>83 MPa</td>
</tr>
<tr>
<td>Length of briquette</td>
<td>60-100 mm</td>
<td>40-60 mm</td>
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<tr>
<td>Max press power on material</td>
<td>2734 bar</td>
<td>140 MPa</td>
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<tr>
<td>Density</td>
<td>4-5 kg/dm³ (steel)</td>
<td>1,6-2,1 kg/dm³ (steel)</td>
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<tr>
<td>Dia. of briquette</td>
<td>50,70,80,90 mm</td>
<td>60 mm</td>
</tr>
<tr>
<td>Type</td>
<td>A mm</td>
<td>B mm</td>
</tr>
<tr>
<td>----------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>HLS 100</td>
<td>1860</td>
<td>900</td>
</tr>
<tr>
<td>HLS 200</td>
<td>2500</td>
<td>1200</td>
</tr>
<tr>
<td>HLS 350</td>
<td>3000</td>
<td>1520</td>
</tr>
<tr>
<td>HLS 500</td>
<td>3000</td>
<td>1520</td>
</tr>
<tr>
<td>HLS 800</td>
<td>3600</td>
<td>1820</td>
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</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>A mm</th>
<th>B mm</th>
<th>C mm</th>
<th>D mm</th>
<th>E mm</th>
<th>F mm</th>
<th>G mm</th>
<th>H mm</th>
<th>Cap kg/h</th>
<th>Power kW</th>
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<tbody>
<tr>
<td>BrikStar BCM 50, 70, Hopper 1 m³</td>
<td>1680</td>
<td>1430</td>
<td>1274</td>
<td>30</td>
<td>1200</td>
<td>1506</td>
<td>1560</td>
<td>1300</td>
<td>30-60</td>
<td>4</td>
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<tr>
<td>BrikStar BCM 100, 150, Hopper 1 m³</td>
<td>1680</td>
<td>1840</td>
<td>1274</td>
<td>30</td>
<td>1200</td>
<td>1506</td>
<td>1560</td>
<td>1300</td>
<td>50-80</td>
<td>5,5</td>
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<tr>
<td>BrikStar BCM 50, 70, Hopper 3 m³</td>
<td>2140</td>
<td>1728</td>
<td>1740</td>
<td>290</td>
<td>1660</td>
<td>1964</td>
<td>2020</td>
<td>1140</td>
<td>70-120</td>
<td>7,5</td>
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<tr>
<td>BrikStar BCM 100, 150, Hopper 3 m³</td>
<td>2400</td>
<td>1990</td>
<td>2004</td>
<td>350</td>
<td>1920</td>
<td>2224</td>
<td>2290</td>
<td>1010</td>
<td>110-170</td>
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</table>
Advantages and possibilities with briquetting

- Briquettes are easy to transport. The transportation costs are lowered.
- The price of swarf is increased with briquettes, above all for grinding sludge and aluminium.
- Briquettes are better by remelting in oven.
- With an automated swarf handling the production can be efficient - money to save.

**Arboga-Darenth Briquetter type HLS**
- Powerful design
- Low wear
- Low energy need as to briquette capacity
- Reduced costs in handling and transportation
- Low maintenance costs

**Options**
- Inspection opening. To be opened with tools
- Rotation sensors as start or as level indicator (Full- and/or empty)
- Special layout with exit left
- Heater for the oil - if the hydraulics is installed outside
- External oil cooler for continuous operation
- Special voltage and other options on request

**Arboga-Darenth Briquetter type BCM**
- Compact built to save space
- Plug-in-ready - low installation costs
- Integrated tank with pump for coolant
- Hopper of an optional size with vertically filled corners and extracting cutter equipped with blades - transport of the material from the hopper without making an arch
- Feeding and pressing power automatically optimized by the control system depending on the material properties - uniform length and quality of briquettes even in case of changing of various types of materials
- Sensor of the minimum level of material for automatic stop and start of the press - minimization of operating costs
- Individual steps of the pressing cycle are controlled by a computer programming - easy adjustment to individual requirements
- 2 off drive motors - save energy
- Service hours counter, gauge of oil level in the tank, adjustable thermostat and oil cooler as part of the standard equipment

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**Swarf Briquetter**
Robust push-out can connect to a conveyor.
Several sensors control the operation

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**Swarf Briquetter**
Revolving arm in the hopper evens the flow into feeding conveyor and guarantees a safe and reliable operation

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