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**HYDRAULIC BRIQUETTE PRESS  
BP500**

# »»» ABOUT THE TECHNOLOGY



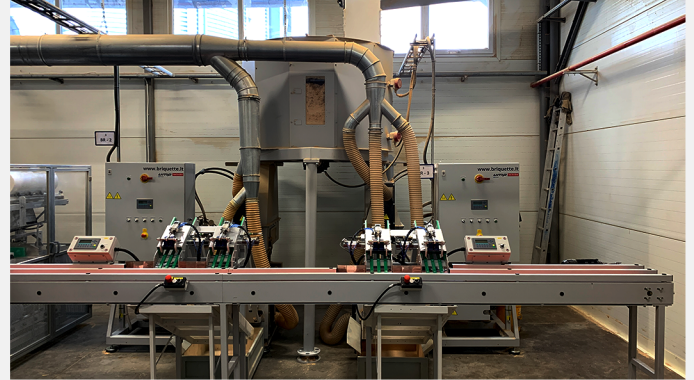
The BP-500 hydraulic press from UMP Technika is a machine that transforms sawdust into briquettes, turning unwanted waste into profits for your business. All you need is dry sawdust and electricity.



Sawdust briquettes are a clean biofuel made without any additives which are used in boilers, stoves and fireplaces. It takes about 7m<sup>3</sup> of sawdust to create 1m<sup>3</sup> of briquettes which also simplifies handling and storage.



Since 2003 we sold over 800 units worldwide, all crafted in Lithuania. With in house production and top components from Siemens and Parker, real-life testing, these machines are built to last for decades.



BP500 is a modular press that can work standalone, or can be offered in a turnkey briquetting solution including material preparation, infeed, briquetting, packing and even palletising. All by UMP technika!

**Nature**  **Business**

**Eco-Friendly Solution & Wallet-Wise Choice**

# TECHNICAL HIGHLIGHTS

Basic information	
BP-500 Hydraulic briquette press turns dry (6-14% humidity) biomass (sawdust, hay, straw) byproducts into briquettes. In other cases, after material tests and confirmation from the manufacturer it can also be briquetted with some other materials such as aluminium, copper, peat, coal etc.	
Machine is delivered ready to make briquettes, all that is needed is electrical connection and material infeed. Hydraulic, electrical, cooling and control systems are all part of the machine and integrated into a single metal frame.	
Ambient operating temperature range of the vehicle spans 5 – 40°C. Machine should be installed indoors, protected from the elements (rain, sleet, snow).	5 – 40°C
Each machine is designed, built and tested in Ukmergė, Lithuania by UMP Technika. Not only do we manufacture, but we also use our machines - all products of UMP Technika are also used daily in our sister woodworking companies.	
Total of 9 BP-500 presses are operating in Ukmergė 24/7 which allows for constant testing and improvements of the machines.	
Electricals	
<b>380V 50Hz 100A connection required</b>	
Onboard electricians are operated by Siemens S7-1200 PLC and Siemens KTP-400 Touch Screen HMI.	
<b>BP-500 has 4 electrical motors with total installed power of 34.2kW:</b>	
Main motor	30kW
Infeed motors	2.6kW
Cooling system	1.5kW
Touch Screen HMI. Includes setting parameters, service information, fault codes and data monitoring.	
Automatic and manual modes of operation.	
Automatic mode starts & stops the machine automatically depending on availability of material.	
Manual mode is for cleaning and service.	
Power indicator & emergency shutoff button on the cabinet	
Hydraulics	
System operates three cylinders using two hydraulic pumps, hydraulic tank and a system of valves	
Max pressure	300 bar
<b>Main motor is 380 V, 50 Hz, 3-phase, 1500RPM, 30 kW, IE2 energy-saving motor</b>	30 kW
Hydraulic oil tank capacity	260l
4 filters from	3µm
Automatic oil level monitoring with safety shutoff	
Oil type	HVLP 32
Heating & cooling	
Automatic heating/cooling system control with oil heaters and coolers which monitor and control for optimal oil temperature.	
Machine pre-heats the oil during start-up	
Vertical column	
Vertical pre-compaction pressure and distance is regulated and tracked by the system.	
Bolt-in components allow for quick access during service	

# TECHNICAL HIGHLIGHTS

<b>Material infeed</b>	
Bunker has see-through openable side doors with safety switches as standard. Internal bunker opening is <b>972 x 463 mm at 1220 mm height</b> , volume is 127 litres and includes an infeed auger and an agitator, operated by separate motors.	127 litres
Bunker has an internal sensor which monitors the level of material. If there is no material in the bunker the machine pauses and continues work once it is refilled. Material infeed amount is adjustable.	
<b>Main compaction</b>	
Pressure and distance is regulated and tracked by the ruler system with max pressure of	1700 kg/cm <sup>2</sup>
Briquette size is <b>150 x 60 x 40~110 mm</b>	
Long service life hardened & cemented internal components	
<b>Throughput</b>	
Throughput of the machine depends on material and machine parameters. BP-500 makes up to 600 units of <b>0.83kg</b> briquettes per hour.	Up to 600 units/h
Briquette size & weight is adjustable. Briquette size is monitored and calibrated by a self-learning algorithm.	
<b>Completion</b>	
Machine is delivered wrapped in plastic film on a wooden frame which should be removed during installation. After installation the machine sits on included anti-vibration rubber feet.	
<b>Standard package includes:</b>	
Briquetting press	
Briquette sliders, packing table, packing drawer and impulse sealer for plastic bags	
Documentation	
Service key	
<b>Manufacturer's warranty</b>	
24 month / 2000 work hour warranty <sup>1</sup>	
<b>Service intervals:</b>	
Service, materials and parts provided by the seller.	
First oil and oil filter change after 2000 work hours, then filter every 2000 work hours and oil every 6000 work hours.	
Other servicing done following the manual & service plan.	
<b>Dimensions</b>	
2100 x 1900 x 2200 mm when installed without packing table	
4860 x 1900 x 2200 mm with packing table	
2100 x 1900 x 2200 mm During transport	
3050 kg	
<b>Additional options</b>	
<ul style="list-style-type: none"> <li>▪ UB-180 silo for one or two presses</li> <li>▪ Single packing table from two machines</li> <li>▪ Mirrored machine</li> <li>▪ Star + Delta connection for startup</li> <li>▪ Soft start connection for startup</li> <li>▪ Custom colours</li> <li>▪ Custom stamp</li> </ul>	

<sup>1</sup> Whichever comes first, either 24 months or 2000 work hours.

»» **TOGETHER.**  
EVERY STEP OF THE WAY ««



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