



UMP

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**HYDRAULIC METAL BRIQUETTE PRESS
MBP**

»»» ABOUT THE TECHNOLOGY



MBP is a specialised press built from the ground up for briquetting of iron, steel and similar alloys. The press is used to compress metal chips or shavings into compact briquettes that are easy to store & transport



Metal briquettes are compacted blocks made from metal chips or shavings using a metal briquetting press. They reduce volume, improve melting, save resources, and enhance overall safety of a workplace.



MBP Includes integrated oil collection pads. Does not include packing table – only briquette guides. Comes with see through bunker doors & oil heating elements as standard. Machines are controlled by quality Siemens KTP-400 touchscreens.



Metal briquetting is a smart way to handle metal waste. It reduces waste, saves resources, and makes operations more efficient. Overall, it's a practical and cost-effective way to reduce waste, protect the environment and save your money.

Nature  **Business**

Eco-Friendly Solution & Wallet-Wise Choice

TECHNICAL HIGHLIGHTS

| Basic information | |
|---|----------|
| MBP Hydraulic metal briquette press turns metal chips, scraps or shavings to briquettes. They reduce volume, improve melting, save resources, and enhance overall safety of a workplace. It can also press bigger pieces of soft metals like aluminum, magnesium or copper and 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. | |
| Electricals | |
| 380V 50Hz 100A connection required | |
| Onboard electrics are operated by Siemens S7-1200 PLC and Siemens KTP-400 Touch Screen HMI. | |
| MBP has 4 electrical motors with total installed power of 34.2kW: | |
| Main motor | 30kW |
| Infeed motors | 2.6kW |
| Cooling system | 1.6kW |
| 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 |
| Main motor is 380 V, 50 Hz, 3-phase, 1500RPM, 30 kW, IE2 energy-saving motor | 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

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|---|-------------------------|
| Material infeed | |
| Bunker has see-through openable side doors with safety switches as standard. Internal bunker opening is 972 x 463 mm at 1220 mm height , 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. | |
| Main compaction | |
| Pressure and distance is regulated and tracked by the ruler system with max pressure of | 1700 kg/cm ² |
| Briquette size is 150 x 60 x 40~110 mm | |
| Long service life hardened & cemented internal components | |
| Throughput | |
| Throughput of the machine depends on material and machine parameters. BP-500 makes up to 600 units of 0.83kg briquettes per hour. | Up to 600 units/h |
| Briquette size & weight is adjustable. Briquette size is monitored and calibrated by a self-learning algorithm. | |
| Completion | |
| 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. | |
| Standard package includes: | |
| Briquetting press | |
| Briquette sliders, packing table, packing drawer and impulse sealer for plastic bags | |
| Documentation | |
| Service key | |
| Manufacturer's warranty | |
| 24 month / 2000 work hour warranty ¹ | |
| Service intervals: | |
| 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. | |
| Dimensions | |
| Length: 2000mm | |
| Width: 2000mm | |
| Height: 2200mm | |
| Weight: 3500kg | |
| Additional options | |
| <ul style="list-style-type: none"> ▪ Mirrored machine ▪ Star + Delta connection for startup ▪ Soft start connection for startup ▪ Custom colours ▪ Custom stamp | |

¹ Whichever comes first, either 24 months or 2000 work hours.

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



technika

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