OMCR®
INDUSTRIAL SOLUTIONS

Briquetting machines

Use the full potential of your production process.

Lower costs, save on resources and make an active contribution to sustainability.

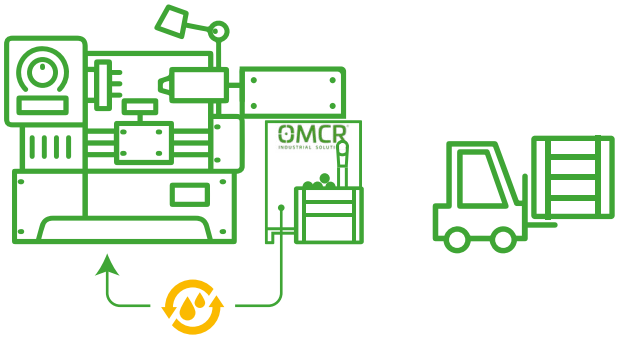
From waste to recyclable material

Making more from chips: Economical, compact, environmentally friendly.

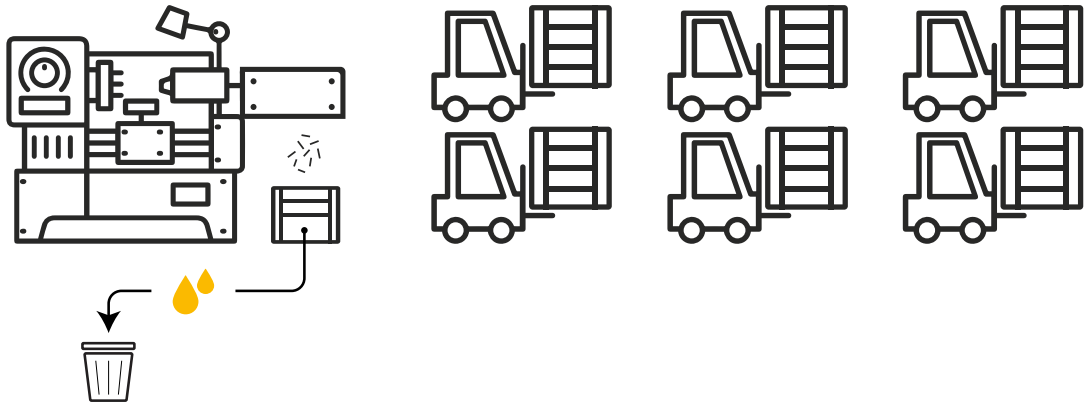
Industrial waste management is increasingly becoming a challenge for companies. BSH compactors offer a cost-effective and sustainable solution: they compress metal shavings with a significant reduction of the original volume, saving storage space and optimizing container handling. At the same time, they enable the recovery of the coolant up to 90%.

Thanks to their compact design, the compactors can be easily integrated into existing production processes and can be amortized within a few years.

With the Briquetting Machine



Without the Briquetting Machine



More value, more profit

Process optimization and cost reduction: your benefits at a glance.

Swarf volume reduction up to 90%

The swarf is collected in the briquetting machine and fed into a compression chamber where the volume is reduced.

Cooling lubricant recovery up to 90%

All the expensive cooling lubricant, which would normally be lost, are collected in a tank and fed back into the machining center, thus eliminating waste.

Best solution for unmanned productions

Installing BSH briquetting machines prevents production losses due to overflowing chip bins.

Reduction of handlings

The briquetting machine reduces the swarf bin emptying operations up to 90% with a consequent increase in safety and resource optimization.

Waste valorisation

The compaction of the chip allows to reduce the transport costs and increase the melting yield, thus obtaining a better selling price.

Sustainability and respect for the environment

The transport of compacted swarf eliminates the risk of spillage of liquids harmful for the environment and optimizes transport efficiency, reducing CO2 emissions.

Compaction results

Swarf volume reduction and coolant recovery.

BSH briquetting machine can process and compress a wide variety of materials.

We carry out free, customized compaction trials using your materials, document the results, and send you back the resulting briquette samples.

Request a free, non binding compaction test:
info@omcr-industrialsolutions.it
T +39 011 996 46 11

ALUMINIUM

STEEL

BRASS

COPPER

Industry 4.0

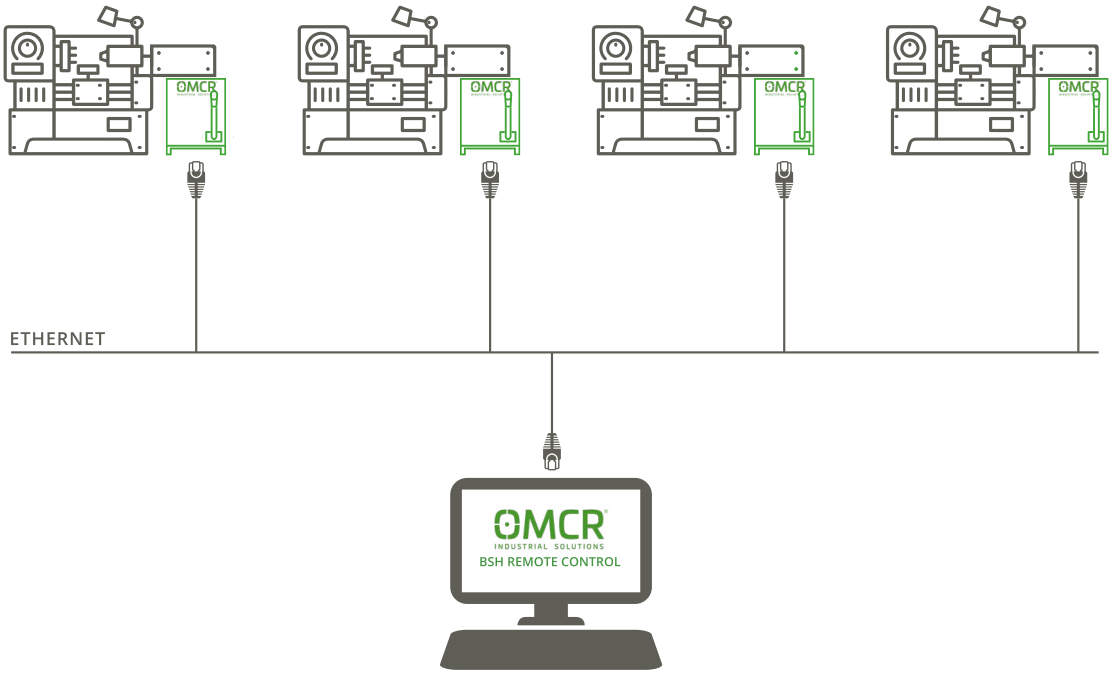
Networked control, central monitoring – intuitive operation.

Equipped with a simple and intuitive SIEMENS HMI control panel, the machines can be networked for centralised monitoring.

Functions:

- Remote access to machine parameters
- Diagnostics and status display
- Shutdown scheduling
- Report creation
- Automatic fault and fill level notifications by email

Control panel - detail



Types of installation

Choose the configuration that best meets your needs.

Stand - Alone

Best solution for machining center with a large daily output of swarf, with economic benefits in the medium term and a radical reduction of swarf bin handling in the factory. It completely eliminates the problem of managing residual cooling lubricant.

Advantages

- Significant reduction in handling operations
- Ideal for unmanned automated production
- Elimination of the problem of managing residual cooling lubricant
- Independent solution for greater reliability

Centralised

Optimal solution for smaller workshops: low initial cost and efficient management of the coolant.

Advantages

- Lower investment
- Ideal for plants with narrow space
- Efficient management of residual cooling lubricant

BSH080
STAND ALONE

A compact solution even for the most demanding applications.

BSH080 briquetting machines are designed for chip management in applications with low evacuation heights. OMCR's experience has resulted in a compact design suitable for even the most demanding applications.

Technical data

Model	BSH080					
Briquette diameter [mm]	45		56		70	
Hourly capacity - Steel / Cast iron [kg/h]	20		30		50	
Hourly capacity - Aluminum / Titanium [kg/h]	10		15		30	
Briquette density performance	S*	B*	S*	B*	S*	B*
Compaction pressure [kg/mm²]	16	24	10	16	7	10
Dimensions [mm]	1120 x 630 x 500 (min)					
Electric power installed [kW]	3					
Weight [kg]	400					

S* = Standard; B* = Booster.

Options

- Customised hopper
- Customised evacuation tube
- Booster to increase compaction pressure
- Titanium Kit
- Wheels

BSH100/120
STAND ALONE

A versatile solution for a wide range of applications.

Due to their adaptability, BSH100/120 briquetting machines are ideal to serve stand-alone machine tools with chip production up to 110 kg/h.
The optional anti-accumulation mixer, with hardened steel blades, ensures high and constant performance over time.

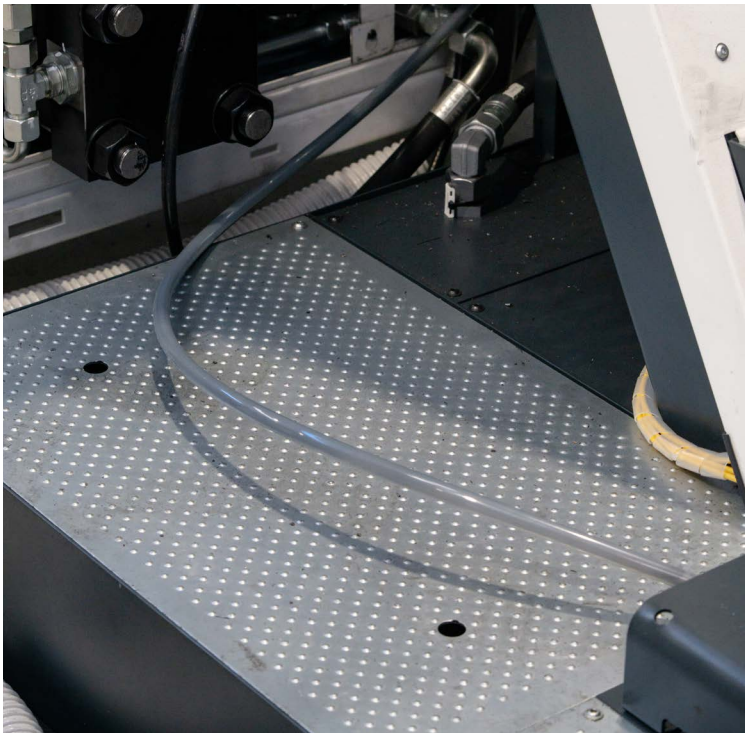
Technical data

Model	BSH100						BSH120					
Briquette diameter [mm]	45		56		70		70		90		110	
Hourly capacity - Steel / Cast iron [kg/h]	25		40		60		60		110		250	
Hourly capacity - Aluminum / Titanium [kg/h]	15		25		40		40		70		120	
Briquette density performance	S*	B*	S*	B*	S*	B*	S*	B*	S*	B*	S*	B*
Compaction pressure [kg/mm²]	16	24	10	16	7	10	8	16	5	10	3	6
Dimensions [mm]	1110 x 630 x 1440						1180 x 750 x 1660					
Electric power installed [kW]	3						5,5					
Weight [kg]	500						890					

S* = Standard; B* = Booster.

Options

- Customised hopper
- Customised evacuation tube
- Booster to increase compaction pressure
- Titanium Kit
- Wheels
- Mixer
- Photocell
- Special auger for turning or plastic processing



BSH100/120ATS CENTRALISED

An integrated solution for efficient management of the entire department.

Centralised BSH100/120ATS briquetting machines allow the processing of small and medium-sized chips, due to the capacity of the hopper up to 1.3 m^3.
The optional anti-accumulation mixer, with hardened steel blades, ensures high and constant performance over time.

Technical data

Model	BSH100ATS						BSH120ATS					
Briquette diameter [mm]	45		56		70		70		90		110	
Hourly capacity - Steel / Cast iron [kg/h]	25		40		60		60		110		250	
Hourly capacity - Aluminum / Titanium [kg/h]	15		25		40		40		70		120	
Briquette density performance	S*	B*	S*	B*	S*	B*	S*	B*	S*	B*	S*	B*
Compaction pressure [kg/mm²]	16	24	10	16	7	10	8	16	5	10	3	6
Accumulation volume [m³]	1						1,3					
Dimensions [mm]	1800 x 1350 x 1380						1900 x 1450 x 1590					
Electric power installed [kW]	3						5,5					
Weight [kg]	500						890					

S* = Standard; B* = Booster.

Options

- Customised hopper
- Customised evacuation tube
- Booster to increase compaction pressure
- Titanium Kit
- Wheels
- Mixer
- Photocell
- Special auger for turning or plastic processing

BSH100/120MTS MANUAL CENTRALISED

A centralised solution with manual feeding, simple and efficient.

The BSH100/120MTS compaction area is an innovative solution which allows waste management in compliance of the environment; ideal solution for machine tools with low chip production.
Solution designed for ergonomic manual loading.

Technical data

Model	BSH100MTS						BSH120MTS					
Briquette diameter [mm]	45		56		70		70		90		110	
Hourly capacity - Steel / Cast iron [kg/h]	25		40		60		60		110		250	
Hourly capacity - Aluminum / Titanium [kg/h]	15		25		40		40		70		120	
Briquette density performance	S*	B*	S*	B*	S*	B*	S*	B*	S*	B*	S*	B*
Compaction pressure [kg/mm²]	16	24	10	16	7	10	8	16	5	10	3	6
Dimensioni [mm]	1370 x 910 x 960						1180 x 750 x 1025					
Electric power installed [kW]	3						5,5					
Weight [kg]	500						890					

S* = Standard; B* = Booster.

Options

- Customised evacuation tube
- Booster to increase compaction pressure
- Titanium Kit
- Wheels
- Mixer
- Photocell
- Special auger for turning or plastic processing

BSH100SD CENTRALISED FOR SLUDGE

A specific solution for the management of grinding sludge.

The BSH100SD grinding sludge compactor enables the recovery of a large part of the liquid absorbed by the sludge with a reduction in the weight of the material to be disposed of, by more than 50%, significantly lowering disposal costs and reducing environmental impact.

Technical data

Model	BSH100SD
Briquette diameter [mm]	56
Hourly capacity - Sludge [kg/h]	35*
Coolant recovery [l/h]	25*
Pressed sludge obtained [kg/h]	10*
Residual humidity [%]	3÷5
Dimensions [mm]	1370 x 910 x 1050
Electric power installed [kW]	3
Weight [kg]	540

* Average values depending on the initial moisture conditions of the sludge fed into the compactor.

Options

- Customised evacuation tube

Accessories

Designed to improve performance and versatility.

Anti-accumulation mixer

Suitable for applications with heavy discharge of short chips, with a removable mixer option for greater versatility.

ALS - Auxiliary lubrication system

Auxiliary lubrication system for dry processes.

Special auger

Profile specifically designed for the application, maximizing the efficiency of the chip loading cycle into the compression chamber.

LCS - Long chip collection system

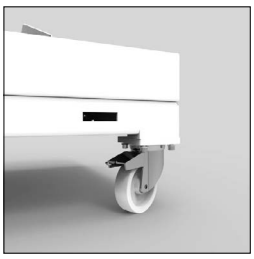
System dedicated to long chips prone to tangling.

Manual loading

Lateral manual loading, allowing the handling of chips coming from other machining centers.

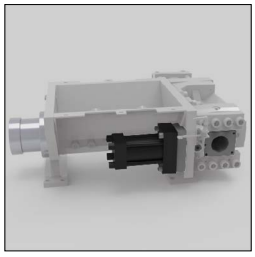
Base with wheels

Base with brake-equipped pivoting wheels, for easy positioning during installation and maintenance.



Titanium kit

For chips made of materials with high-strength, high friction, such as titanium.



Photocell kit

Work cycle controlled by a sensor, optimizing energy consumption.

Open evacuation tube

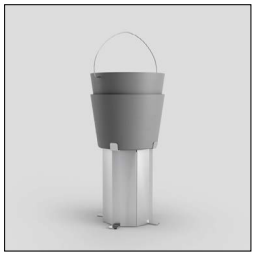
Designed to prevent the accumulation of non-briquetted chips and increase process reliability.

Secondary emergency stop button

Second emergency stop button.

High/low swarf unloading kit

Swarf collection bucket for manual unloading on briquetting machine.



Drainage Hopper

PCD kit, drainage tank filter.

Openable bottom box

Simplified emptying of the collection container.

ECD - Easy cleaning drawer

Makes machine cleaning operations easier, simpler and faster.

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