



BrikStar iSwarf

Hydraulic briquetting press
for metalworking operations.



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POLYTECHNIK

Always one idea ahead



Volume reduction up to 90%.

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Effective use of potential.

Metalworking often produces large amounts of waste products such as metal chips and shavings, whose value is not recognised or exploited. This waste material is usually disposed of at great cost due to the high proportion of cooling lubricants or the proceeds from selling the scrap are negligible. However, this waste can be optimally used in a high-performance briquetting press from HÖCKER POLYTECHNIK. The BrikStar iSwarf 440 and 550 briquetting presses provide the ideal solution when it comes to the processing of short, loose metal chips left over from the machining of non-ferrous metals, steel and cast-iron parts or other metals such as aluminium and magnesium.

Excellent performance

Both model ranges are distinguished by the fact that they cover a wide range of briquette requirements such as briquette density and throughput rate; this is achieved through a combination of different briquette diameters and hydraulic performance. Intelligent control technology and an optimised hydraulic system ensure much higher penetration and the briquettes have a high density and a low residual moisture. The pressed out liquid could again be added to the cutting fluid circuit or after treatment to the production process. This guarantees significant cost savings by reducing the consumption of new oil or of emulsion quantities.

Both models are ideal for the professional production of briquettes in metalworking operations. The optimised design of the press frame reduces wear to a minimum. The compression cylinder exerts pressure of up to 360 MPa on the material to be briquetted. A wide range of hopper types and sizes can be designed to optimally handle the chip and loading conditions. As a standard feature, the PLC controls the capability to adjust the compression pressure to easily achieve and adjust the desired density of the briquettes.





All the advantages of the BrikStar iSwarf:

- Compact and space-saving design
- Adjustable compression pressure
- Easily adjustable briquette density
- Low wear due to optimised compression zone
- No assembly required – supplied ready to plug in
- Savings of up to 95% on new oil or emulsion quantities
- Lower storage, transportation and disposal resources
- Added value through the sale of metal briquettes
- Sustainable and environmentally friendly operation
- Almost complete prevention of corrosion of metal shavings
- Briquettes with low residual moisture for optimal melting

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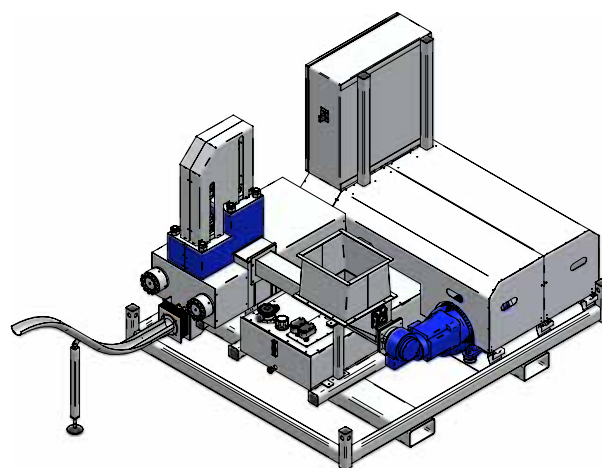
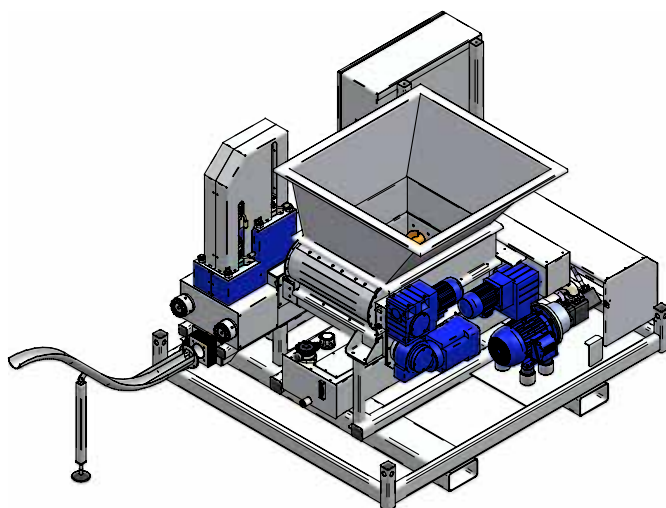


BrikStar iSwarf – the flexible solution.

This new series combines the advantages of a compact space-saving machine with the advantages of a large briquetting press with high briquetting performance. The machinery can be equipped to meet the individual requirements and needs of the customer. Briquette diameters of 50-100 mm and throughput rates of 60-600 kg/h allow for customised briquetting solutions. The optimised hydraulic system contributed to a considerable increase in energy efficiency. For example, with only 4 kW hydraulic power, up to 200 kg/h of metal shavings can be compressed. A PLC-controlled automated briquette length function guarantees a maximum throughput rate at all times. A large touch panel allows easy operation. The compact and ready-to-operate models in this series are supplied as complete presses with a solid frame construction and an integrated hydraulic unit. Numerous options extend the scope of application and complete the range.



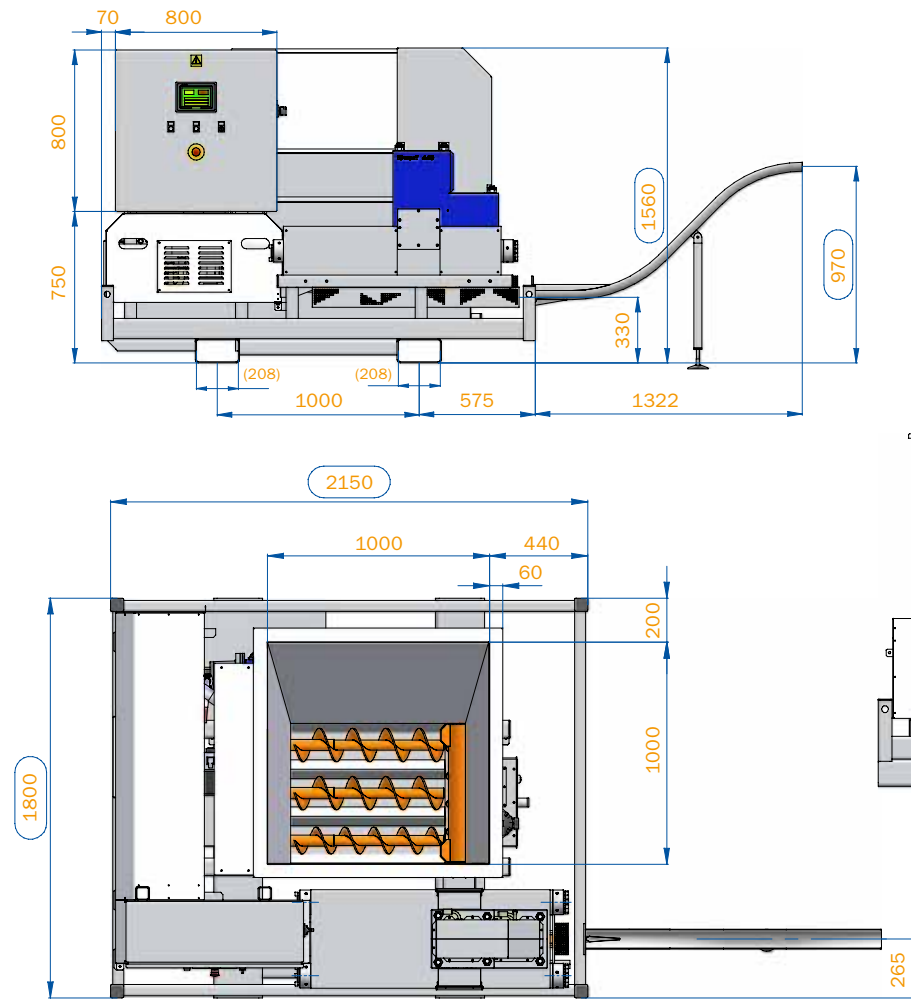
Selection of two machine examples



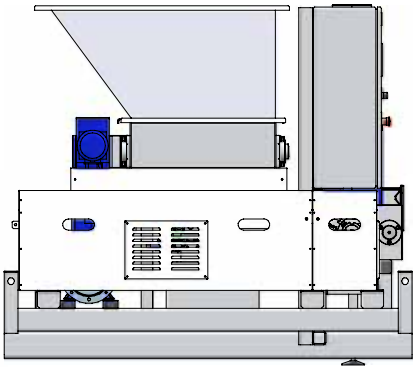
« Touch panel for easy operation and display of operating conditions.



Technical data



« Visualisation example
BrikStar iSwarf 440-10-3SN-WA



Typ	BrikStar iSwarf 440		BrikStar iSwarf 550	
Briquette diameter	50-70 mm		60-100 mm	
Briquette length	40-80 mm		50-110 mm	
Drive motor hydraulic	4/5,5/7,5 kW		5,5/7,5/11 kW	
Output	Aluminium	60-180 kg/h	120-400 kg/h	
	Steel and cast	120-280 kg/h	150-550 kg/h	
	non ferrous-metal	150-300 kg/h	180-600 kg/h	



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An investment that pays off.

Highly efficient solutions are achieved with the use of a BrikStar iSwarf from HÖCKER POLYTECHNIK in the production process by converting expensive production waste into usable materials. Whether recycling, resource recovery, dehydration or de-oiling, etc., the applications are varied:

- In the briquetting process, chips are separated from cooling lubricants or cutting oils. These oils can be cleaned immediately and re-circulated into the operating cycle. A major cost factor is eliminated as savings of up to 95 per cent on cooling lubricants or cutting oils can be achieved through the recycling.
- The resulting waste products from the production process are compressed into compact and convenient briquettes. Considerable additional revenue can be generated through the sale of these briquettes.
- The recycling and reusing of waste products also result in substantial savings in the area of internal logistics; this translates into savings in transportation costs, better utilisation of container capacity and the elimination of unnecessary storage containers.

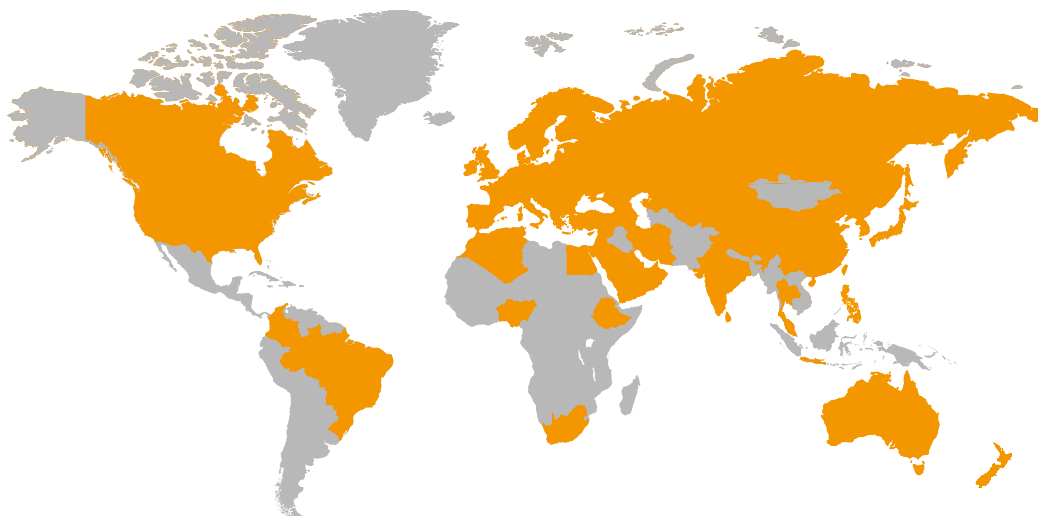
Due to their compact design and connection-ready delivery all HÖCKER POLYTECHNIK briquetting presses can be easily integrated into existing production processes. The hydraulic BrikStar iSwarf briquetting presses can be optimally combined with HÖCKER POLYTECHNIK filter systems for the separation of dry metal shavings and dust. We will gladly recommend efficient suppliers for the processing of the pressed-out cooling lubricants.

Excerpt from our reference list of metal briquetting presses:

Alcan · Almet AG · APM-Vouzier · ASCO Industries · ATLA · August Mössner · BHS Corrugated · Bikar Metalle · BMW Group Munich · Bosch · Christ+Heiri · Delta Usinages · Detech S.A. · Felco SA · georgfischer Automotive · Hohenhausen · Jaquar Ltd. · Salzgitter Magnesium · Siemens AG · Stork Fokker · Swatch Group · TCG Unitech

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HÖCKER POLYTECHNIK GmbH

Borgloher Straße 1 · 49176 Hilter · Germany · Fon + 49 (0) 5409 405-0 · Fax + 49 (0) 5409 405-555

www.hoecker-polytechnik.de · info@hpt.net

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