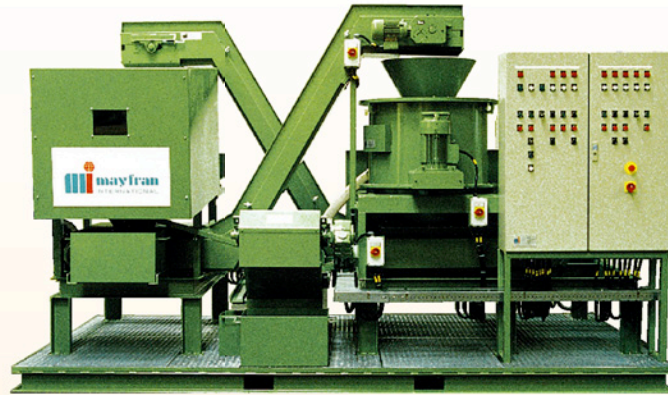


Continuous centrifuges

for recovery

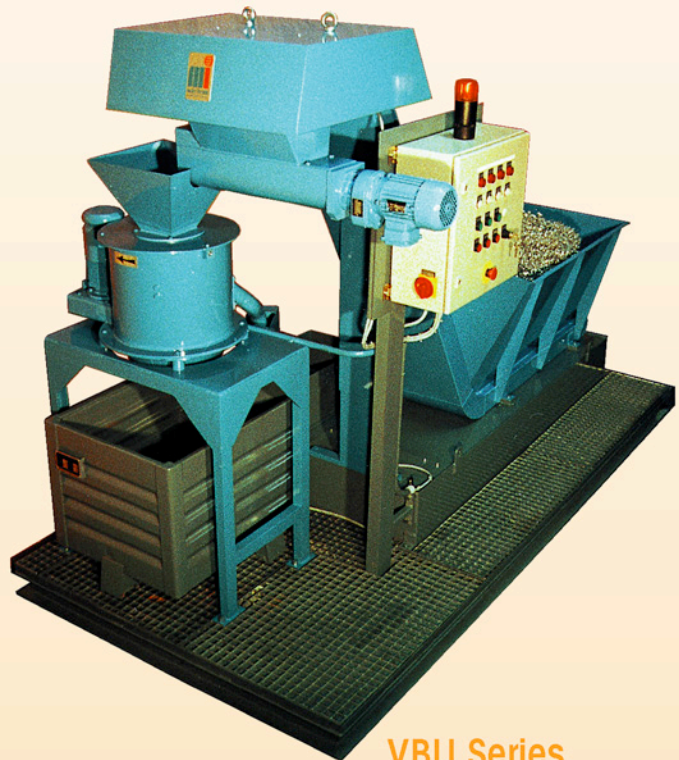
of coolant and oil



Chip processing



Lift-bottom centrifuge LBC



VBU Series

More profit with RECYCLING

Chip wringing is becoming progressively more important in today's machine shops. Environmental laws limit the maximum residual coolant that can be left in transported swarf. Reclaiming the expensive coolant and the increased sales value of the dried chips are significant cost saving factors for a shop operation.

Type VBU

The small continuous chip centrifuge for the daily use

Advantages of the VBU-series centrifuges

- Adjustable centrifuge speed to fit individual requirements
- Automatic and continuous operation
- Minimum number of parts, resulting in smooth running and low maintenance
- Heat treated, one piece long life drum
- Superb de-oiling
- Long lifetime
- Small size
- Low price



Type	VBU 300	VBU 1000	VBU 2000	VBU 3000	VBU 4000	VBU 6000
Performance / kW	0.55	1.5	3.0	5.5	7.5	15

Capacity / kg/h						
Steel (Density 1 kg/l)	125	350	800	1365	2140	4520
Cast Iron (Density 1 kg/l)	125	350	800	1365	2140	4520
Aluminium (Density 0.33 kg/l)	42	117	267	455	713	1507
Brass (Density 1.2 kg/l)	150	400	920	1570	2460	5200

Function:

Small metal chips are continuously and regularly fed into the centrifuges charge funnel by a feeding conveyor. The chips slide into the fast spinning centrifuge drum and are accelerated up to the drums RPM. High G-forces (up to 700 times gravity) drive the chips up the drum's side wall and over the coolant outlet towards the upper edge of the drum. In this process the coolant is wrung off the chips and forced out via the coolant outlet. The dried chips pass over the upper drum edge and are guided via the centrifuge housing and discharge funnel into an extractor conveyor or swarf bin.

... for various amount



Typical residual coolant in swarf after wringing, depending on chips and coolant	
Steel/oil	1.5%
Steel/emulsion	1.0%
Cast Iron/oil	3.0%
Cast Iron/emulsion	2.0%
Aluminium/oil	3.5%
Aluminium/emulsion	2.5%

Type LBC

Lifting bottom centrifuge, especially suitable for grinding swarf (with min. 30% metal particles)



Advantages of the LBC-centrifuges:

- Extremely low residual coolant in swarf after wringing
- Higher degree of de-oiling through long-term operation
- No cleaning of drum required even when processing sludge
- High dependability and quiet operation (less than 75 dB)
- Easy to service and repair due to highly resistant casing and easily replaceable parts
- Fully automatic and continuous operation

Type	LBC 500	LBC 600	LBC 800
Performance / kW	5.5	7.5	7.5
Capacity / kg/h*	1500	3000	6000

* Steel chips with a density of 1 kg/l

Function:

This up and down motion of the live bottom pushes the chips upward through the sieve. The centrifugal force, up to 500 times the force of gravity, will dry the chips, resulting in the maximum degree of de-oiling. The remaining oil content is extremely low. The dry chips fall down over the edge of the drum into a container.



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