

ROUSSELET



centrifugation

**Continuous centrifuge for de-oiling small
or crushed swarf, to reduce the remaining oil content
Centrifuge type SCPC-C**



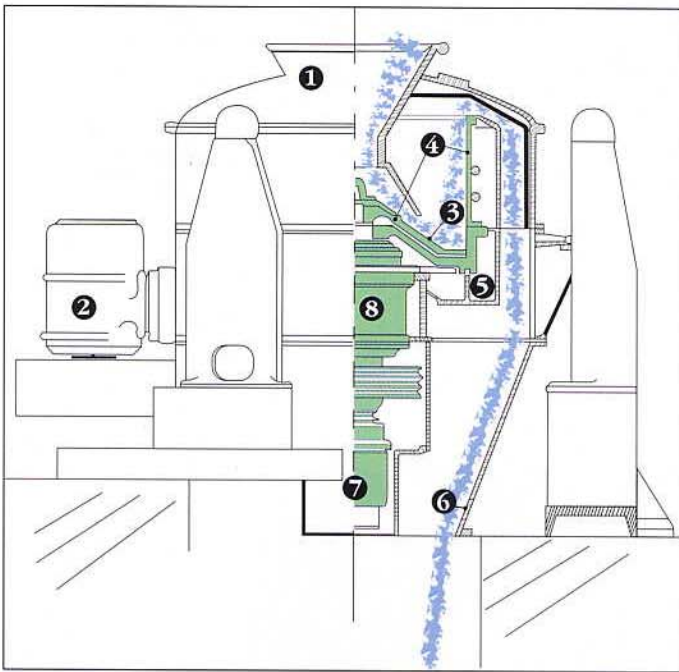
Throughput :

The throughput of this continuous swarf processing centrifuge is dependent on :

- The size and shape of the swarf/chips
- Characteristics of the oil (viscosity, temperature)
- Quantity of oil to be removed.

After processing, the remaining oil content of the swarf is normally $\leq 3\%$ dry weight.

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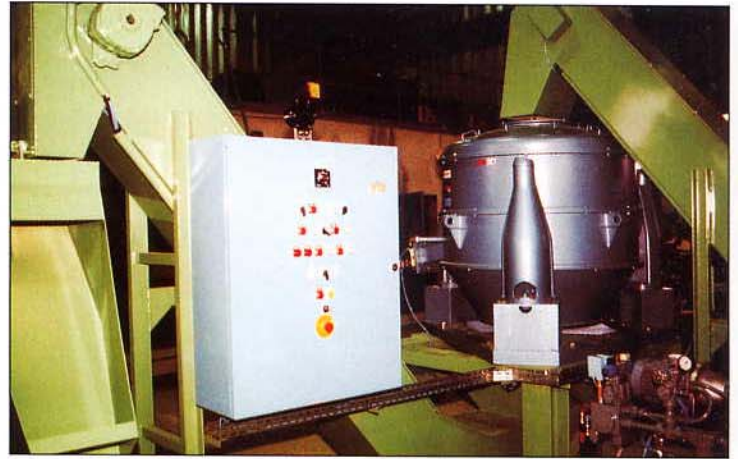
- ① Loading funnel
- ② Electric drive motor
- ③ Pusher plate
- ④ Wedged wire basket
- ⑤ Oil discharge
- ⑥ Processed swarf discharge point
- ⑦ Rotary seal
- ⑧ Bearing housing and hydraulic device for pusher plate motion

Operating Principle :

The rotating conical basket is manufactured from wedged wire, to achieve filtration of oil from swarf. The base of the basket is designed as a pusher plate, which is hydraulically controlled. This plate operates in an "up and down" motion, which causes the last of the swarf being fed into the basket to push the previously fed swarf in an upward direction across the face of the wedged wire screen. The swarf is automatically discharged from the basket when it reaches the top and falls by gravity to the discharging outlet chute.

Construction :

- 3 column suspension.
- Fabricated steel outer shell internally protected with high Manganese content steel to achieve resistance against swarf abrasion.
- Wedged wire stainless steel conical basket with base operating as a pusher plate.
- Mounted on roller or needle bearings, dependent on size of centrifuge.
- Continuous top feeder with processed swarf being discharged from the base.
- Centrifuge driven in rotation by a side-mounted electric motor connected to a clutch to allow easy starting.
- Hydraulic pack to control pusher plate action.
- Local electrical control panel.
- Centrifuge designed and built to European Standards.



Type	Basket			Motor Power		Hourly output of crushed chips (tons)			Total weight with hydraulic unit (Kg)
	Basket speed (rpm)	Diameter (mm)	Height (mm)	Centrifuge (kW)	Hydraulic Unit Pump (kW)	Mild or Stainless steel	Brass steel	Aluminium	
SCPC 50 C	1000	500	305	3	3	0,35	0,50	0,15	1150
						0,75	1,00	0,40	
SCPC 70 C	890	700	430	4	4	1,00	1,50	0,75	2000
						2,50	3,00	1,50	
SCPC 90 C	520	900	490	12	5,5	3,00	4,00	1,50	3100
						5,00	6,00	2,50	

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