



## FALCON CONTINUOUS (C) CONCENTRATORS



### APPLICATIONS

- Primary concentration of tin, tantalum, tungsten, chrome, cobalt, iron, fine oxidized coal and uranium
- Scavenging of fine particles lost by low G force processes and flotation
- Pre-concentration of heavy minerals

### KEY ADVANTAGES

- Unit capacities up to 60 t/h
- No fluidizing water consumption or offline time for concentrate flushing
- Advanced wear materials and a modular design decreases downtime and reduces maintenance costs.
- High gravitational field (up to 300 G) allows recovery of very fine particles
- The variable frequency drive (VFD) enables control over G force based on application
- Produces high density (variable mass yield 0 – 40%) concentrate therefore no thickeners required
- Continuous production of concentrate at >70% solids
- Greater than 95% mechanical availability, extremely low operating costs
- Small footprint
- Fully automated, "one touch" operation that provides the least amount of offline time and highest possible concentrate security

### CONTINUOUS RECOVERY DOWN TO 10 MICRONS

**Falcon C Concentrators** are typically used in gravity recovery applications that require a higher mass yield to concentrate when compared with SB Concentrators. Often utilized for the recovery of valuable fine particles, Falcon C Concentrators are capable of collecting fines missed by shaking tables, dense medium separators, spirals or any other low G processes.

Designed for continuous duty, these machines are able to produce mass yields as high as 40%. The primary objective of the Falcon 'C's is to maximize recovery and reduce tonnage to downstream processes. Since no water is added during processing, this technology can be installed in rougher-scavenger or rougher-cleaner cleaner configurations with large circulating loads allowing operators to maximize both recovery and concentrate grade.

**Reliable test work can lead you to the right concentrator for your application. Sepro operates laboratory facilities, which generate decisive data for scale up to commercial operation.**



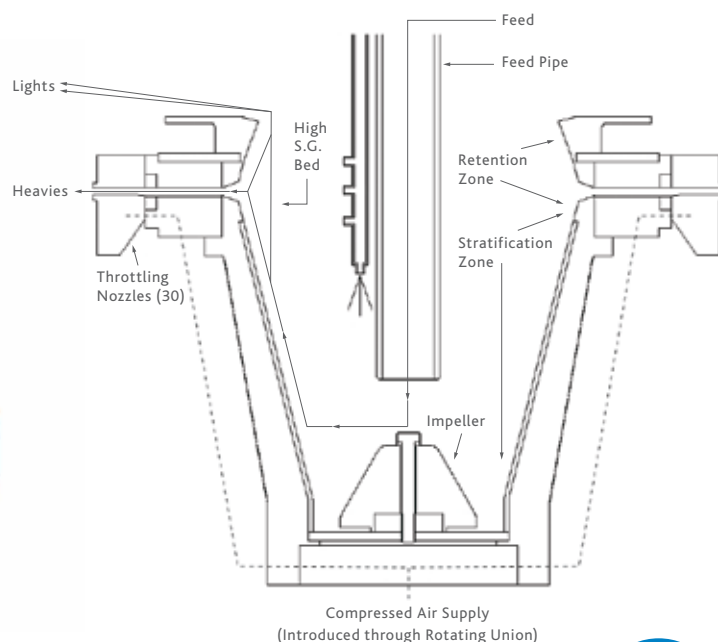
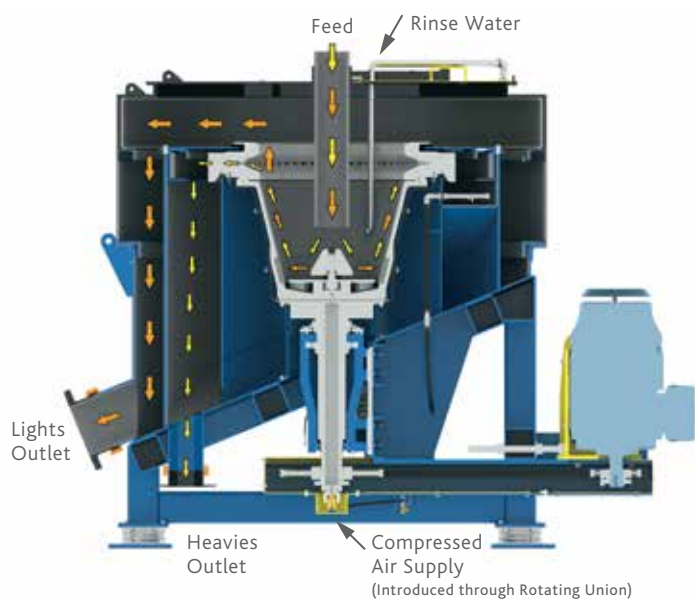
# FALCON CONTINUOUS (C) CONCENTRATORS

## SPECIFICATIONS

MODEL			C400	C1000	C2000
RECOMMENDED SOLIDS CAPACITY*	t/h		1 - 5	5 - 27	20 - 60
MAX SLURRY CAPACITY	m <sup>3</sup> /hr		17	74	210
MAXIMUM FEED PARTICLE SIZE*	mm		1.0	1.0	1.0
MINIMUM EFFECTIVE CAPTURE SIZE	µm		10	10	10
CONCENTRATE PERCENT SOLIDS	%		65 - 72	65 - 72	65 - 72
MAXIMUM FEED PERCENT SOLIDS*	%		40	40	40
CONCENTRATE SURFACE AREA	m <sup>2</sup>		0.25	0.60	1.42
G-FORCE RANGE	upper		300	300	300
	lower		50	50	50
MOTOR POWER	kW (HP)		7.5 (10)	15 (20)	30 (40)
PROCESS WATER CONSUMPTION	m <sup>3</sup> /hr			NONE REQUIRED	
MACHINE WEIGHT	kg		1215	2 525	4 615
DIMENSIONS	WIDTH	m	1.22	1.55	1.85
	LENGTH	m	1.22	1.55	1.85
	HEIGHT	m	1.33	2.18	2.67

\*Denotes application specific parameter, consult manufacturer.

Note: Specifications are subject to change without notice. Equipment may not operate or achieve best performance under maximum capacities.



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