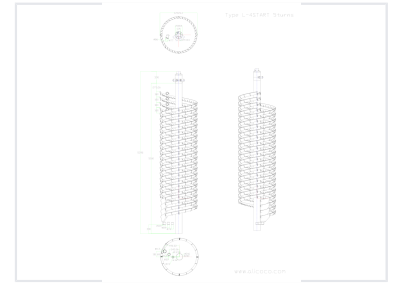
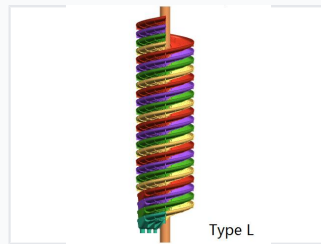
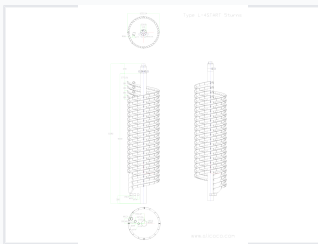


# Spiral Concentrator for Mineral Separation

The spiral concentrator Type L is designed for efficient mineral separation. It utilizes gravity to separate particles based on density, making it suitable for various mineral processing applications.



## ADDITIONAL IMAGES



## Product Overview

### High-Efficiency Mineral Separation

The Type L spiral concentrator is a precision-engineered gravity separation device designed for maximizing recovery in mineral processing circuits. Utilizing advanced modular polyurethane construction and customizable splitting configurations, this unit ensures consistent performance and longevity in challenging mining environments. Its versatile design supports single to quad trough configurations to meet various throughput requirements and feed densities.

## Key Features

### Core Features

- Replaceable modular cast polyurethane feed box
- Customizable splitter configurations per application
- Integrated concentrate diverter and re-pulping devices
- Cast polyurethane product collector box
- Accurate top or bottom entry feed distribution

## Technical Specifications

ALICOCO SPIRAL CONCENTRATOR 'S SPECIFICATIONS

Items/Type	Type FG7	Type H	Type L	Type M	Type ML
Diameter	680mm	1230mm	1230mm	1230mm	1230mm
Pitch Space	380mm	590mm	710mm	590mm	590mm&710mm
Start number	Single/twin/triple	Single/twin/triple	Single/twin/triple/quad	Single/twin/triple	Single/twin/triple
Turns/start	5-12	3-12	3-12	3-12	3-12
Materials & Ambient temperature	Wear resistant Functional polymers - <b>ENGINEERINGPLASTICSALLOY</b> : 20°C --- 120°C; Service life: from 7 years to 20 years.				
Particle size	-2mm---+0.03mm	-0.3mm---+0.03mm	-0.3mm---+0.03mm	-0.3mm---+0.03mm	-0.3mm---+0.03mm
Pulp density	10%---55% w/w	10%---55% w/w	10%---55% w/w	10%---55% w/w	10%---55% w/w
Feed volume	2-3 steres/start	5-15 steres/start	5-25 steres/start	5-15 steres/start	5-15 steres/start
H/M% in feed	0.01%---40%	0.01%---98%	0.01%---98%	0.01%---60%	0.01%---98%
Apply stage	Rougher Scavenger	Rougher Cleaner/re-cleaner Scavenger	Rougher Cleaner/re-cleaner Scavenger	Rougher Scavenger	Rougher Scavenger
Wash water	Inside Trough wash-water System is available as per order on some applications				
HMC Splitters	Trough Midway HMC Splitters is available (each turn or each tow turns)				
Applications	Gold /Tin/tungsten/Chromite/Niobium-tantalum/Zircon/Rutile/Ilmenite/Silica-sand/Pumice-sand/Iron /Hematite/Garnet/Barite/Sillimanite/Andalusite/Titani-magnetite/Manganese/Native copper/Base-metal				

**PATENT NUMBER:** World: CHINA 03113503K, 201120288083, 201120215456, 201120211523, 200620155975; AUSTRALIA 2012292866; INDIA 6194/Dehp/2013; SOUTH AFRICA 2013/06406; VIETNAM 1-2013-03557;

Technical diagram illustrating spiral concentrator configuration and component layout.

### Physical Dimensions

**5390 mm**

Total Height

**5000 mm**

Spiral Section Height

**1232.14 mm**

Outer Diameter

### Operating Parameters

Metric	Value
Pitch Space	710 mm
Feed Volume	5-25 steres/start
Pulp Density	10% - 55% w/w
Particle Size	-0.3mm to +0.03mm
Service Life	7 - 20 years

### Application

Suitable Minerals

Gold, Tin, Tungsten, Iron Ore, Zircon, Rutile, Ilmenite, Silica Sands, Chromite, Manganese