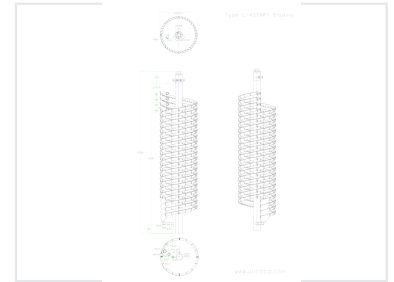
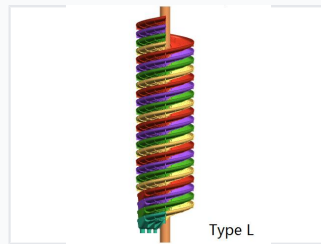
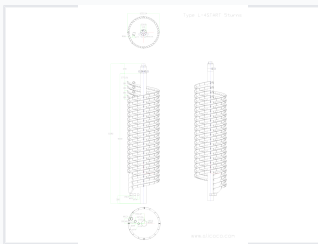


Spiral Concentrator for Mineral Separation

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 - ENGINEERINGPLASTIC ALLOY: 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 stere/start | 5-15 stere/start | 5-25 stere/start | 5-15 stere/start | 5-15 stere/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/recleaner Scavenger | Rougher Cleaner/recleaner 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/Titano-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 stere/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