



PRODUCT BULLETIN

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Model LC 3000 Spiral Concentrator

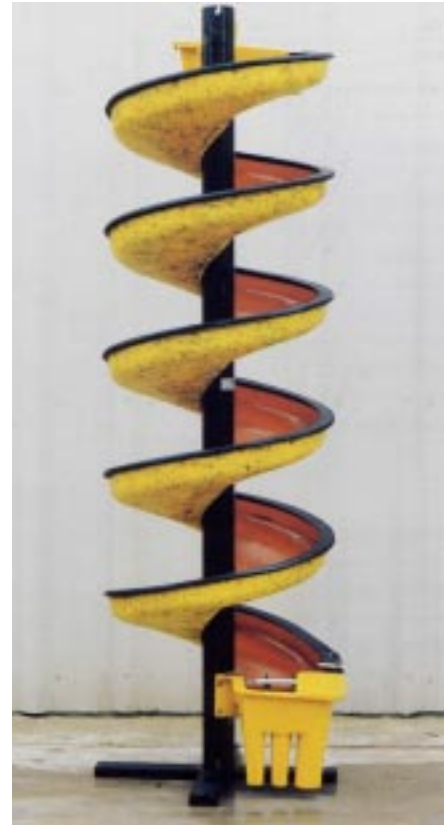
GRAVITY CONCENTRATION USING SPIRALS

The LC 3000 spiral concentrators are an effective device for recovering fine free gold from milled ore and alluvial deposits down to approximately 30 microns. The advantages of removing free gold with spirals early on in a treatment circuit are:

- low treatment costs;
- increased gold recovery (over grinding reduces recovery);
- reduced cyanide consumption. LC spirals can also be used to recover a gold bearing pyrite concentrate from which the gold can then be removed after roasting or other pre-treatments. Concentrations in excess of 80% pyrite at high recovery can be made using LC and HC spirals.

PROCESS DESCRIPTION

De-sliming can be performed efficiently using hydrocyclones to deslime anywhere between 200-500 mesh (75 to 25 microns). An additional advantage to using cyclones ahead of the gravity concentration circuit is that cyclone underflow density can be adjusted to give good control to feed spirals. Urethane cyclones are lightweight though of rugged design to give long lasting wear life in these highly abrasive gold circuits.



SPIRAL CONCENTRATION

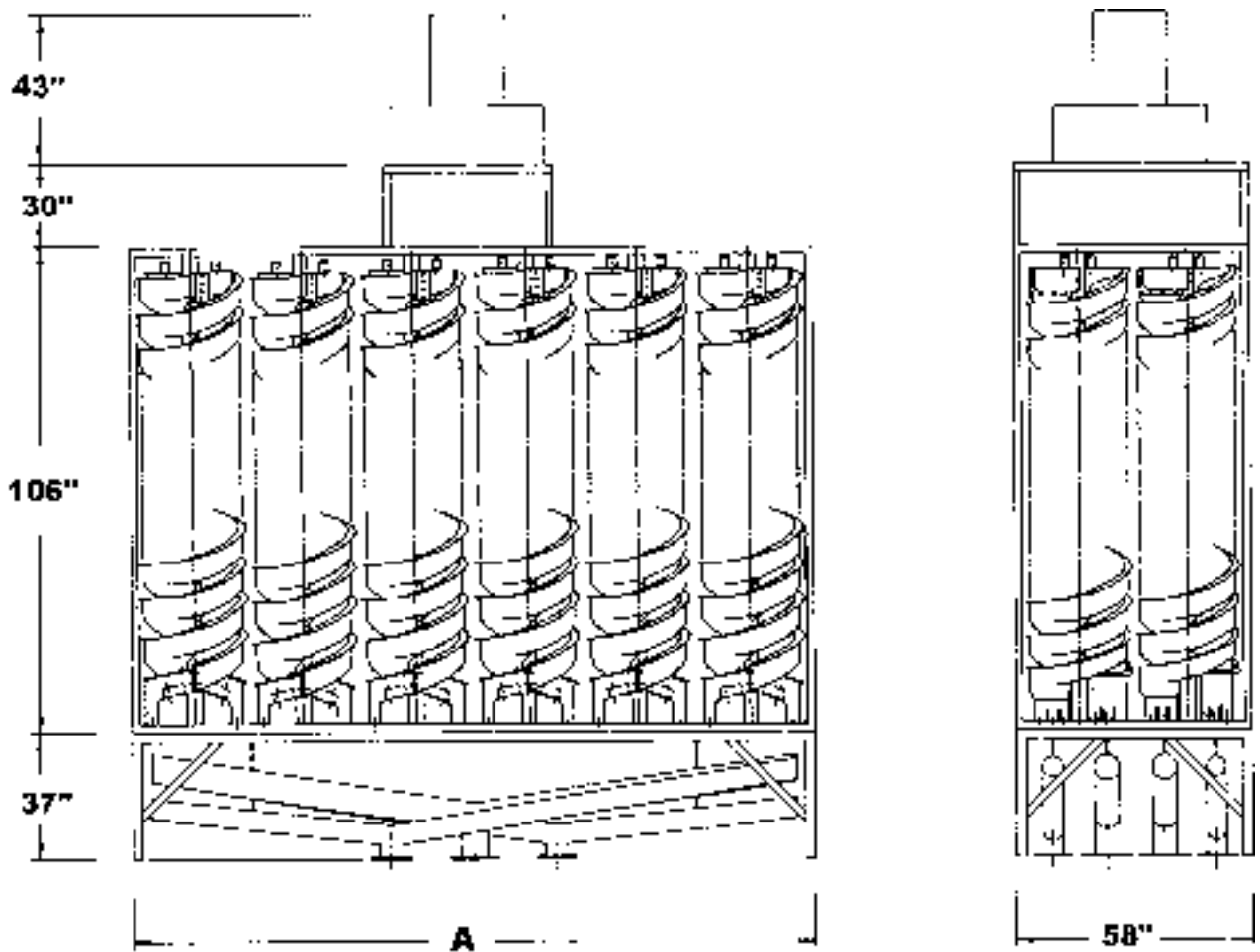
The LC 3000 range of new spiral concentrators, available in single, double or triple starts, are a most cost effective, easy-to-operate means of fine gold recovery. Using the latest materials of construction, excellent wear resistance is achieved.

Spirals can be shipped as completely self contained modules requiring only that slurry be fed to the distributor and products removed from the collection launders. The washwaterless spiral is an effective device for rejection of much of the gangue present with the gold; although to maximize the recovery, spiral tailings may be retreated to reduce gold losses. A series of slurry distributors are available to suit your needs. These distributors are all equipped with replaceable lining in the potential high wear areas.



Photo of splitter bon on spiral. Illustrates that up to 3 cuts may be made on spiral, with highest density material inside, next to center, and lighter density material outward.

LC 3000 Spiral General Dimensions



Dimensions	NUMBER OF SPIRALS					
	2	4	6	8	10	12
"A" Inches	27	54	81	108	135	162