



HEATH & SHERWOOD

linear sampler

Model 1530/ICE™ Yoke Style Electric

Sampling of High Flows for On-stream Analysis or Metallurgical Accounting

Very Easy to Install

- no special tools required
- ensures high operating time with low maintenance

Continuous Electric Drive System

- ensures uniform cutter velocity through the material stream
- non-reversing motors last longer
- intermittent and continuous operation

Low Profile Extra Heavy Duty Carriage and Frame

- cutter carriage mounted on rail supported by steel rollers and urethane thrusters

ICE™ Integrated Cutter Enclosure

- easy installation into circuit piping
- available with open or transition bottom outlets
- saves time with sampler installation
- modular rubber lined steel design
- protects sampler mechanism from splashing

Increase profits from your process by accurately sampling slurry. Standard and custom designs with many applications for vertical slurry pipe discharges up to any diameter and wide chute discharges. Slurry applications: cyclone overflow, final tailings, final concentrate.

Cutters and Cutter Caps

- designed to suit each application
- ensures correct increment delimitation and extraction
- construction materials:
 - carbon or abrasion resistant steel
 - molded polyurethane
 - stainless steel
 - others on request

Drip Rings

- eliminates contamination of sample
- inside and outside of sample launder

Process In

Artists Concept

Inspection Doors

- convenient location for cutter cap replacement and maintenance

Sample Outlet

- feed to secondary sampler or sample pump for analyzer feed

Ten reasons to choose our Integrated Cutter Enclosure (ice™).



- 1** Trust Heath & Sherwood experience in designing properly **engineered** custom enclosures for installing Linear Moving Cutter Samplers, which guarantees correct cutter orientation in relation to the moving slurry stream.
- 2** Customized feed inlets from pipes or launders where **every particle is given equal opportunity, without bias**, to be sampled by the moving cutter, ensuring representative sampling of the process stream.
- 3** **ice™ efficiently engineered** to install into process piping conveniently with a variety of connection styles for mating to conditioning tanks, flotation cell inlets, screens and cyclone inlets/outlets, over pump boxes or other locations.
- 4** **ice™** saves on engineering, procurement and installation costs. Conceptual design and detail engineering can be eliminated by taking advantage of Heath & Sherwood's experience in supplying complete sampling stations.
- 5** **Reliable operation** is assured when Heath & Sherwood's linear samplers are fitted with **ice™**. The complete package provides protection of drive mechanism from slurry splash and minimizes maintenance and repair costs.
- 6** Inspection doors and man-way provided at convenient locations for easy access for cutter cap cleaning or replacement and cutter maintenance.
- 7** The wetted inside areas are lined with molded soft natural rubber. The rubber lining is designed to withstand slurry impact and protect the steel walls and bottoms. For harsh applications special linings are available such as neoprene.
- 8** By adding a Heath & Sherwood secondary sampler and tertiary sampler a complete sampling station can be installed as a module thereby further reducing engineering and installation costs.
- 9** Primary sample increment is collected in a properly sized sample launder which ensures integrity and controls flow rate to the secondary sampler or sample pump. Optional water washing feature is available to clean the cutter and sample launder in between sample intervals. Drip rings and drip return route to discharge are installed on the sample discharge pipe to prevent contamination and further ensure sample integrity in the sample launder
- 10** When selecting a **Heath & Sherwood ice™ linear sampler** station, a risk free installation is assured.

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