# Sampler

## Molten metal sampling

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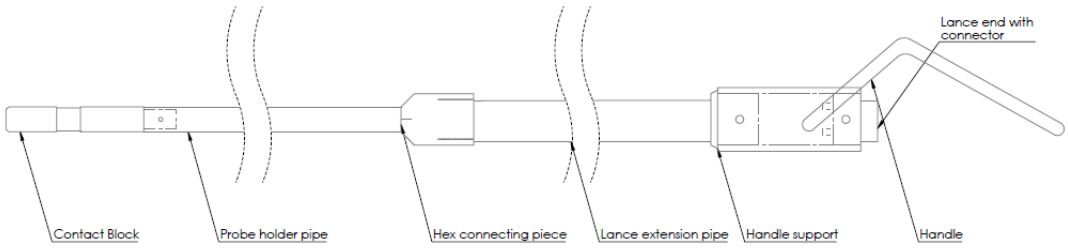
Sampler for hot metal and liquid steel is used for collecting representative samples which are homogeneous, solid and free of pin holes and slag inclusions for spectrographic analysis of the hot metal or steel. The molten metal sample enters the sampler by either ferrostatic pressure, gravity or suction and freezes in the steel mould. Samplers for use in a wide range of applications are available. Samplers with and without de-oxidation agents such as Aluminium, Zirconium and Titanium are available. Samplers of different shapes such as round, oval and dual thickness are available. Samplers for all applications in steel making are available including use in blast furnace runners, torpedoes, BOF, EAF, ladle, degassers, tundish moulds, etc.

The following types of samplers are offered for different applications:

1. Ultra-low carbon sampler: When sampling with no carbon pick-up is needed
2. Steel sampler: Regular samplers for steel sampling with different de-oxidant and different shapes of chill plates.
3. Vacuum sampler: For sampling in areas with operational constraints
4. Hot metal Duosens™: For sampling hot-metal from blast furnace runner
5. Duosens™: Combined Thermtip® and Sampler® for steel
6. Trisens™: Combined Actose® and Sampler® for steel

Full set of Sampler® accessories required for easy molten metal sampling are offered. In addition, standard measurement accessories such as probe holder tube, lance tube, hexagonal connectors, lance end connectors and lance handles



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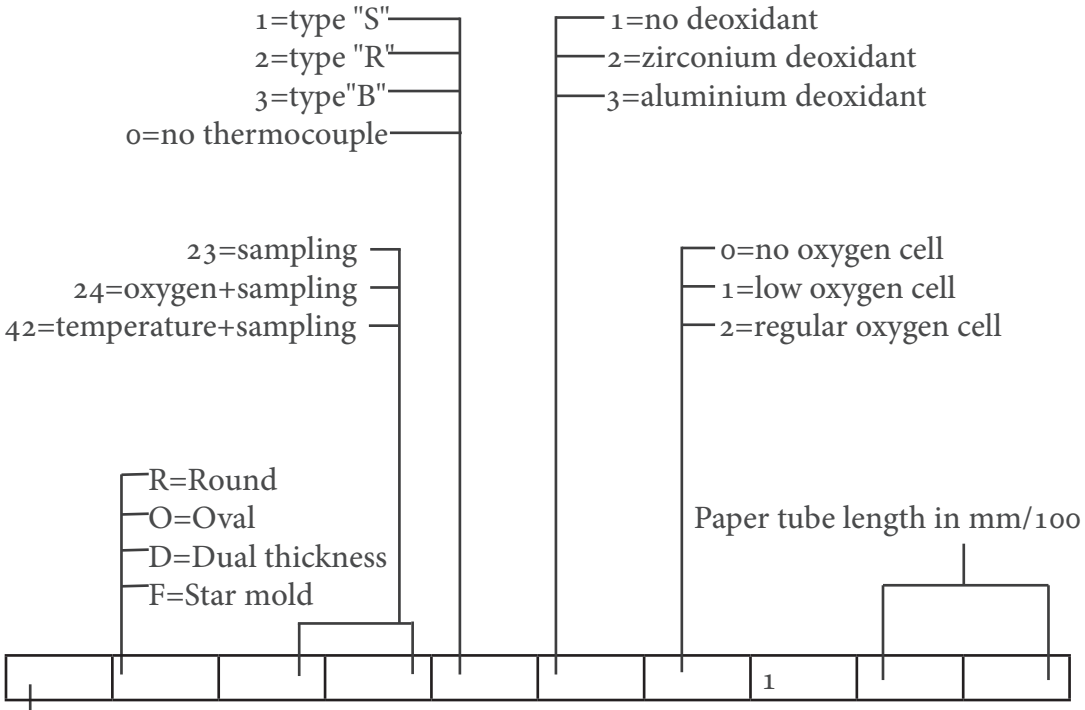
## Ordering information

Combined ordering information for various types of Samplers




Note: This is the general ordering information. All options may not be available for all types of sensors. Special sensors as per customer requirements can be manufactured.
Sampler lance of required length can be provided on request. Accessories for Duosens™ and Trisens™ are identical to accessories for Thermtip™ and Actose™ respectively. Please consult those catalogs for ordering information.

For more details, please contact

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