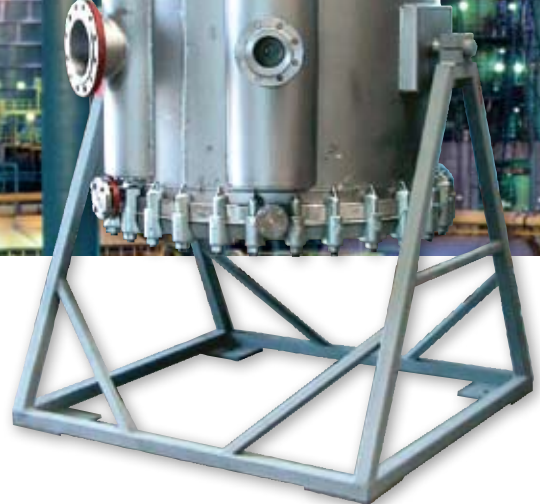


# Spiral Heat Exchangers from Tranter HES GmbH

Hes GmbH Heat Exchanger Systems is now part of the Tranter group and will continue under the name Tranter HES GmbH.



The concept of a spiral heat exchanger is as simple as it is sophisticated. Two or four long metal strips, onto which spacer studs are welded, are wound around a core, thus creating two or four equally spaced single-passage channels. The concentric shape of the flow-passages and the studs create turbulence already at low Reynolds numbers. By optimizing the flow pattern heat transfer is enhanced, whilst fouling is reduced. This results in a compact and space-saving construction that can be readily integrated in any plant and reduces installation costs.

Tranter HES Spiral Heat Exchangers are utilized for a wide variety of industry applications, especially for process industries. As a result of the flexibility of the custom-made tailored design, they can be used as heaters, coolers, interchangers, condensers and evaporators. Spiral heat exchangers are ideally suited for handling “difficult” fluids, such as sludges, slurries, heavy-fouling, viscous and/or particle-laden liquids, but also where fluids have to condense or evaporate at low pressure drops. Each spiral heat exchanger is a custom-made product and can be made from any cold-workable and weldable material.

Spiral Heat Exchanger capabilities:		
	from	to
<b>Channel spacings</b>	5 mm	70 mm
<b>Channel width</b>	50 mm	2000 mm
<b>Surface per unit</b>	0.1 m <sup>2</sup>	800 m <sup>2</sup>
<b>Coil thickness</b>	2 mm	8 mm
<b>Design pressure</b>	Vacuum	60 bar
<b>Design temperature</b>	-100 °C	450 °C

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