

# InKorr

This product is represented in Australia, New Zealand, and PNG by:

## InKorr Pty Ltd

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### Contact InKorr Pty Ltd for:



#### Heat Exchangers

- Shell & Tube Heat Exchangers
- Gasketed Plate Heat Exchangers
- Brazed Plate Heat Exchangers
- Crossflow Welded Plate Heat Exchangers
- Plate & Shell Heat Exchangers
- Non Metallic Heat Exchangers
- Corrugated Tube Heat Exchangers
- Spiral Heat Exchangers
- Air-Cooled Heat Exchangers



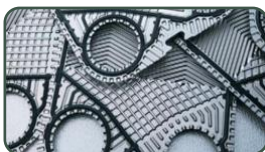
#### Vessels, Columns, and Equipment manufactured from:

- Exotic Alloys (Ta, Zr, Ti)
- Graphite and Silicon Carbide
- PTFE Lining



#### Plastic Lined Valves and Piping

- PTFE
- PVDF
- PP
- and many more!



#### Servicing and reburishment of heat exchangers!

- Plate cleaning
- NDE for crack testing
- Spare parts, both OEM and aftermarket



# Spiral Plate Heat Exchanger

Solution provider for quench-oil duty - No clogging, no leaking, no maintenance



## Know How

Usually to cool quench oil that cools heated metal parts, shell and tube or other multi-channel heat exchangers were used. But some difficulties appeared as for example: clogging and leaking. Using Spiral Plate Heat Exchangers in such processes is a good solution to resolve the issues.

Nexson Group team with 25 years' experience and global references will help you to improve your processes and reduce your costs.

## Benefits

### UNIQUE AND RELIABLE DESIGN

The Spiral Plate Heat Exchanger present in various applications for almost a century, has proven to be the most efficient and reliable solution for handling fluids containing fibers and suspended particles.

### SELF-CLEANING

Single channel combined with turbulent flow allows self-cleaning of the Spiral Heat Exchanger. Covers equipped with davits can be removed to facilitate maintenance and inspection operation.

### ENERGY SAVING

Countercurrent flow circulation makes it ~ 4 times more efficient than traditional shell and tube.

### COMPACT

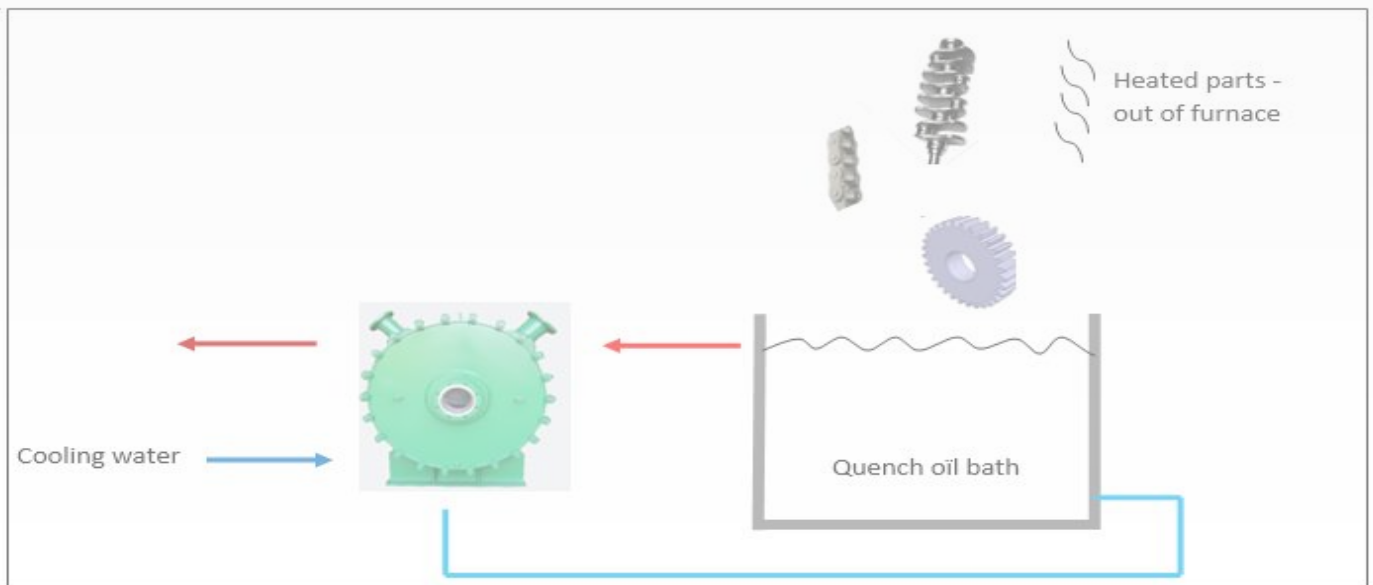
Compact shape, easy to install and operate.



# Applications

**Spiral Plate Heat Exchangers** are used in this case to cool the quench oil that cools the heated metal parts. During this kind of process heated metal parts are shedding particles in the quench oil, which induces scaling and clogging problems. Thanks to its single channel if fouling begins building up in the channel, local velocity increases and causes a scrubbing effect that removes it. The single-channel eliminates misdistribution, which in combination with a wide gap, also prevents clogging.

High temperatures and high chloride concentration caused thermal fatigue and corrosion in the shell and tube heat exchangers. Our Spiral Plate Heat Exchangers are welded and gasket-free. This prevents leakage and makes them **safe** and **reliable** even for high temperature/pressure duties. Thanks to the thickness of the plate this **Spiral** is exceptionally **robust** and **resistant** to erosion.



## Customer benefits

### MATERIALS

P265 GH/SA516Gr60 or 70  
304L 316L DUPLEX  
904L 254SMO  
NICKEL ALLOYS TITANIUM

### CAPACITY

Plate Area up to 600m<sup>2</sup>  
Channel height : 5mm to 32 mm  
Design pressure : full Vacuum / 600 Barg  
Design temperature : -60°/450°C

- SELF-CLEANING EFFECT
- SINGLE CHANNEL DESIGN
- SAFE AND RELIABLE
- LOW MAINTENANCE / INSTALLATION COSTS
- ROBUST AND EROSION RESISTANT
- PEACE OF MIND