

German SME seeks supplier for electrical heater for tubular reactor

Summary

Profile type

Technology request

Company's country

Germany

POD reference

TRDE20250617018

Profile status

PUBLISHED

Type of partnership

**Commercial agreement with
technical assistance**

Targeted countries

• World

Contact Person

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Term of validity

18 Jun 2025**18 Jun 2026**

Last update

18 Jun 2025

General Information

Short summary

A german SME is looking for a supplier of electrical heating systems who can manufacture a heating system for a tubular reactor (2.5m long, DN25) that heats the reactor to 500°C. Ideally with an integrated system to be able to dissipate heat during exothermic processes.

Full description

The company offers everything from engineering, calculations and the necessary relevant design checks through to production. It takes care of process engineering tasks in complex plant construction. The aim is to achieve innovative, technically and economically optimised solutions.

Now the german SME is looking for a supplier of heating systems who can manufacture a heating system for a tubular reactor (2.5m long, DN25) that heats the reactor to 500°C. Ideally with an integrated system to be able to dissipate heat during exothermic processes.

The tubular reactor (2.5m long, DN25) has two different load scenarios.

Load scenario 1: The interior of the reactor must be heated to 500°C.

Load scenario 2: The interior of the reactor is heated to 350°C. The chemical process that then begins is exothermic. The released heat must be dissipated via an active system, e.g. an integrated pipe system with compressed air or

thermal oil.

It is important that the reactor can handle both scenarios. Ideally, the heating system should have several heating zones, at least 5, in order to individually adjust the temperature curve in the reactor.

Furthermore, the heating system must be able to be opened so that the reactor can be removed. The reactors are positioned vertically (not horizontally!).

Advantages and innovations

Technical specification or expertise sought

The supplier of the heating system should have several heating zones, at least 5, in order to individually adjust the temperature curve in the reactor.

Stage of development

Already on the market

Sustainable Development goals

- **Goal 13: Climate Action**
- **Goal 9: Industry, Innovation and Infrastructure**
- **Goal 8: Decent Work and Economic Growth**

IPR Status

IPR Notes

Partner Sought

Expected role of the partner

The supplier should already have a ready-made heating system in its range or be able to customise it to the customer's specific requirements at short notice

Type of partnership

Type and size of the partner

Commercial agreement with technical assistance

- **Big company**
- **SME 11-49**
- **SME <=10**
- **SME 50 - 249**

Dissemination

Technology keywords

- **02003003 - Component integration**
- **09001010 - Thermal material testing**
- **09001009 - Sensor Technology related to measurements**
- **04002004 - Furnace and boiler technologies**
- **04007005 - Heat pipes**

Targeted countries

- **World**

Market keywords

- **09003001 - Engineering services**
- **03007003 - Other analytical and scientific instrumentation**
- **08003007 - Other industrial equipment and machinery**

Sector groups involved

- **Maritime Industries and Services**
- **Renewable Energy**