

BERTRAMS HEATEC™

PLANTS FOR PROCESS HEAT TRANSFER

130 YEARS EXPERIENCE, 3000 REFERENCES



Bertrams

since 1894

SCOPE OF SUPPLY



- **DESIGN, DEVELOPMENT, MANUFACTURE, INSTALLATION AND COMMISSIONING FROM A SINGLE SOURCE**
- **AFTER SALES SERVICES, ORIGINAL SPARE PARTS**
- **CUSTOMIZED PACKAGE SYSTEMS**
- **FULL TURNKEY RESPONSIBILITY**

AS A MATTER OF COURSE

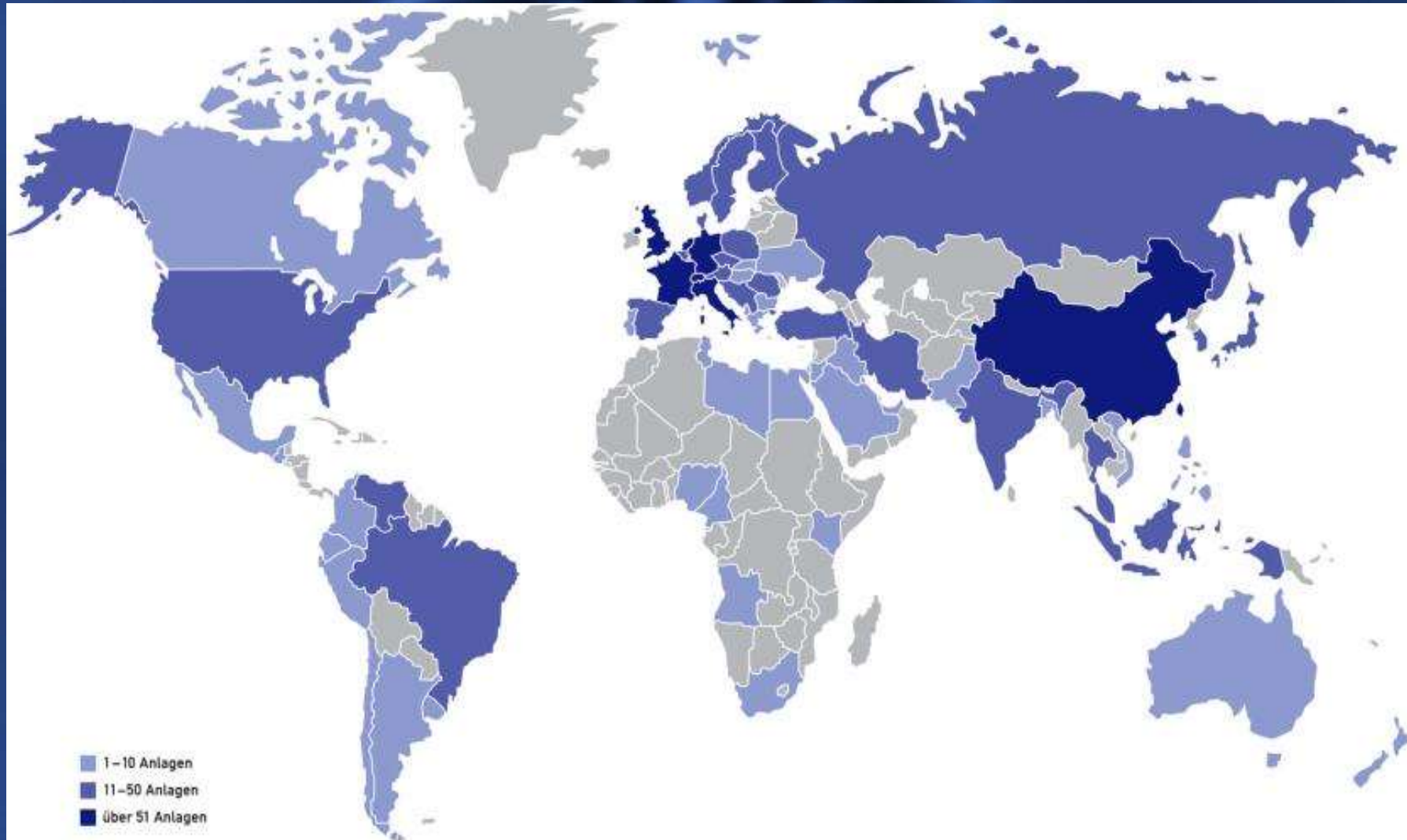


- **A TEAM OF EXPERIENCED SPECIALISTS**
- **PARTNERSHIP IN MIND AND DEED**
- **HIGHEST QUALITY AND SAFETY STANDARDS**
- **PROFOND ENVIRONMENTAL AWARENESS**

PRODUCTS

- **PROCESS HEAT TRANSFER SYSTEMS USING:**
 - **MOLTEN SALTS, THERMAL OIL LIQUIDS AND THERMAL OIL VAPORS**
 - **WATER - GLYCOL MIXTURES**
 - **GASES**
 - **MOLTEN METALS**
- **CAPACITY RANGE TO APPROX. 45 MW PER HEATER**
- **TEMPERATURES UP TO 650°C**
- **PROCESS HEATERS FOR DIRECT HEAT TRANSFER**
- **SOLAR POWER PLANTS (TES, NITRATE MELTING UNITS)**
- **ELECTRIC HEATERS**
- **WASTE INCINERATION WITH HEAT RECOVERY UNITS**

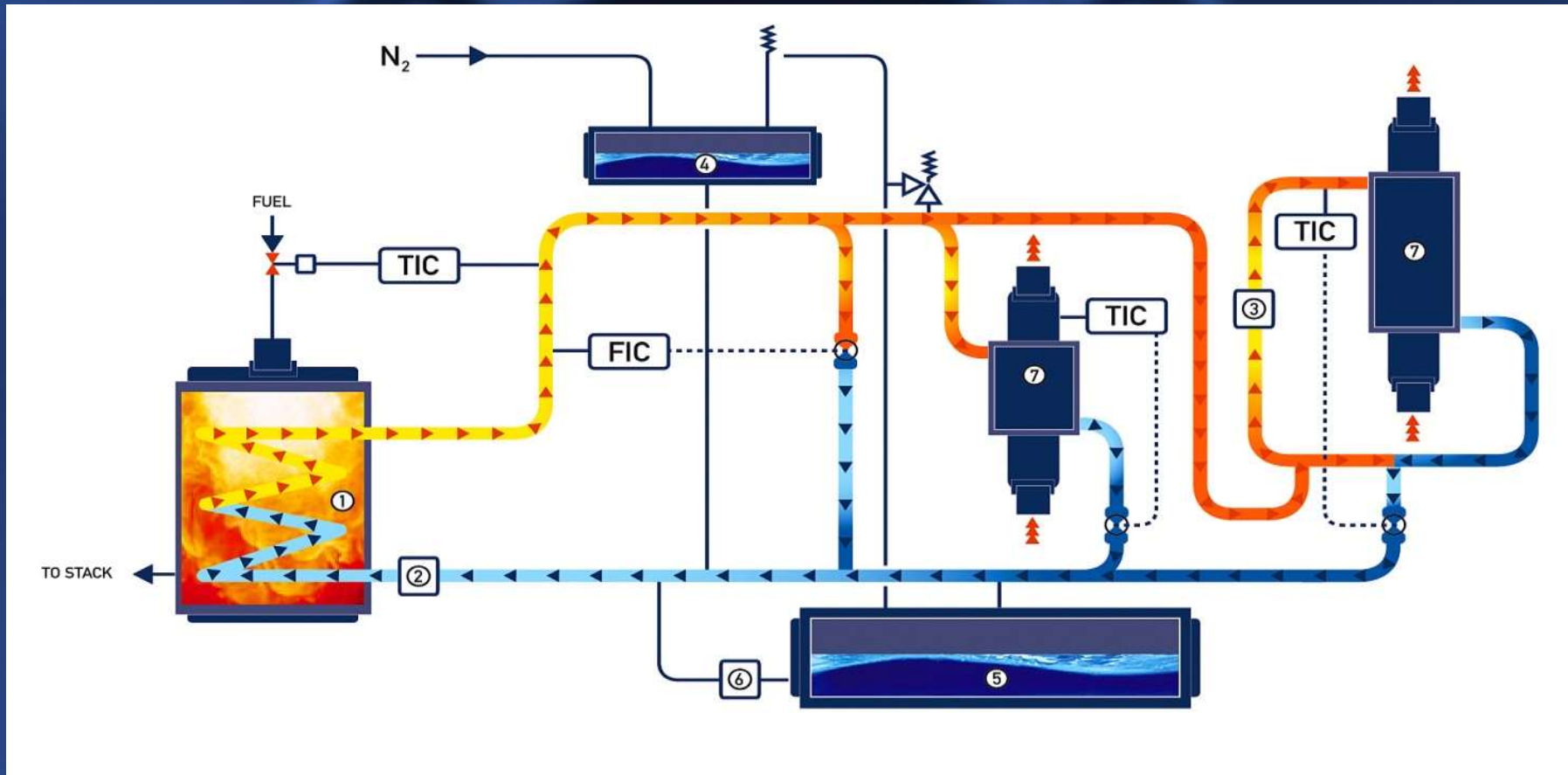
PLANTS INSTALLED WORLDWIDE



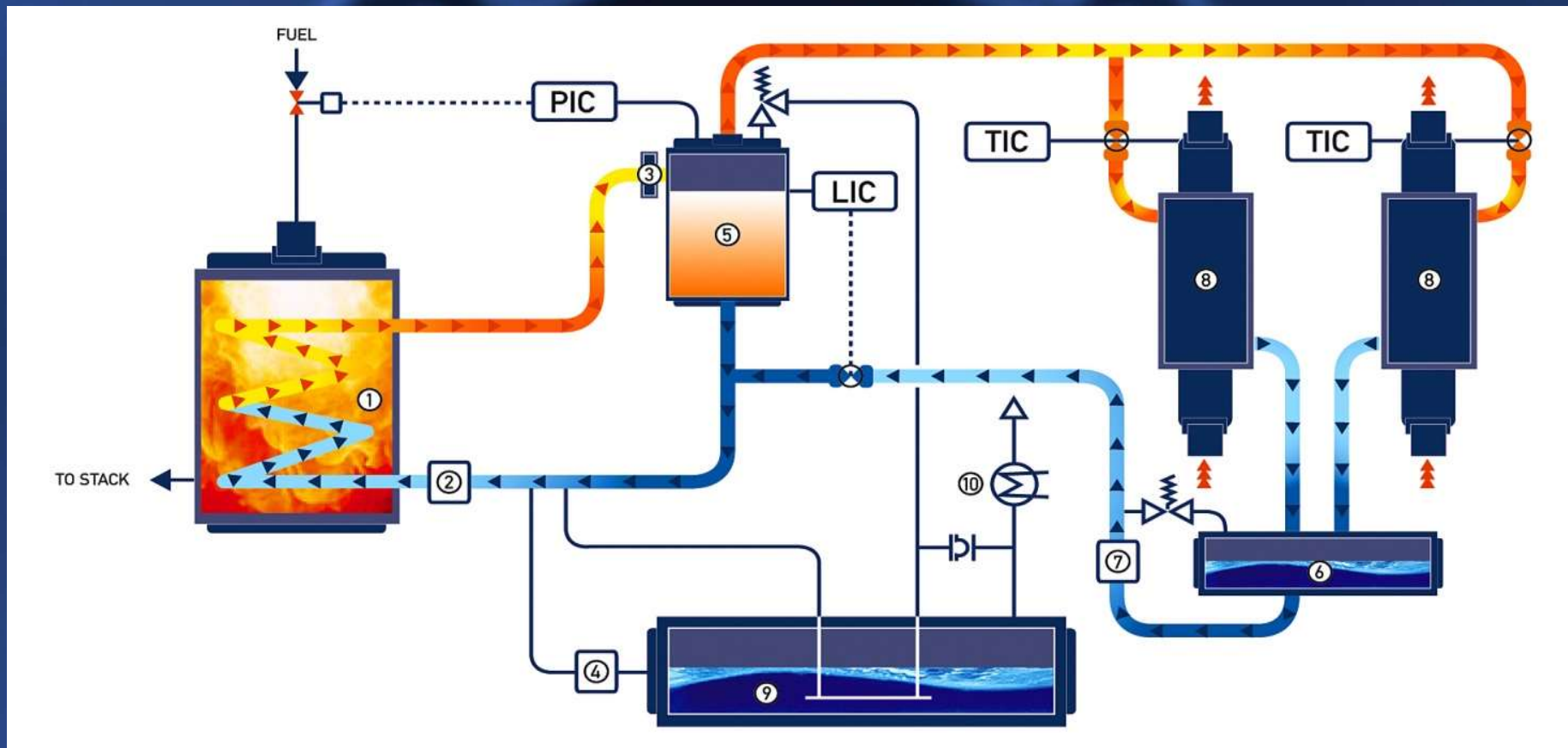
PLANTS INSTALLED WORLDWIDE



PROCESS HEATING SYSTEMS WITH THERMAL FLUIDS IN LIQUID PHASE



PROCESS HEATING SYSTEMS WITH THERMAL FLUIDS IN VAPOR PHASE



SOME APPLICATIONS USING THERMOFLUIDS



ORGANIC LIQUID SYSTEMS

- PTA, PET
- CHEMICALS, PETROCHEMICALS
- FIBERS
- PLASTIC PROCESSING
- DYESTUFF
- FOOD AND BEVERAGE
- PAPER
- ANODES FOR ALUMINIUM INDUSTRY

SOME APPLICATIONS USING THERMOFLUIDS



ORGANIC VAPOR SYSTEMS

- PET
- CHEMICALS, PETROCHEMICALS
- FIBERS
- PLASTIC PROCESSING
- FOOD AND BEVERAGE

SOME APPLICATIONS USING MOLTEN SALTS



MOLTEN SALT SYSTEMS

- SODIUM & POTASSIUM HYDROXIDE
- MELAMINE
- ALUMINIUM
- FERTILIZER

CONCENTRATED SOLAR POWER PLANTS



THERMAL ENERGY STORAGE SYSTEMS

- CSP USE TES WITH MOLTEN NITRATES
- POWER TOWER TECHNOLOGY
- PARABOLIC TROUGH TECHNOLOGY
- FRESNEL TECHNOLOGY
- BIGGEST NITRATE SUPPLIER USE
BERTRAMS' TECHNOLOGY

CONCENTRATED SOLAR POWER PLANTS



THERMAL ENERGY STORAGE SYSTEMS

- INITIAL NITRATE MELTING UNITS
- NITRATE BACK-UP HEATING UNITS
- HTF BACK-UP HEATING SYSTEMS