Downhole Technologies

8153 HeatMaster

Fast, uniform, repeatable tool joint heating **with no open flame.**

The 8153 HeatMaster™ is a precision induction heating solution engineered for the TorqueMaster™ breakout system. It uses non-contact, circumferential induction heating to quickly and safely free downhole tool connections.

Even, controlled heat expands the tool connection uniformly, breaking down cured thread-locking compounds into a slightly tacky residue that brushes away easily. This reduces cleanup time and eliminates open-flame hazards.

With profile-based recipes, a remote operator panel, and integrated chiller control, our system enables one-person operation and consistent results from the shop floor to the field.

Operating modes

- **Profile heating (primary):** Select preset recipes by tool OD and target temperature
- **Manual heating:** Adjust power/current/voltage with optional timer
- **Settings and diagnostics:** Manage profiles, cooling status, and system alerts

System architecture

- **Power module:** IP65 induction power supply (water-cooled) with remote panel
- **Heat station:** IP65 low-frequency range unit mounted on a guard plate
- **Work coil:** Fully encapsulated, application-specific with optional removable liner
- **Chiller:** Automatic standby and remote activation via the HeatMaster control
- **Mounting:** Guard plate interfaces directly with the TorqueMaster accessory beam
- **Input power:** 380-480 7AC, 3-phase, 50/60 Hz

Standard package and options

- Power module, heat station, coil, guard plate, chiller control, hoses and cables, and profile library
- The 8153 HeatMaster delivers faster, cleaner, and safer tool joint heating than traditional torches, improving efficiency, repeatability, and crew safety for all TorqueMaster operations.

Benefits

- Uniform, circumferential heating for predictable expansion and no hot spots, and breaks down thread-lock compounds into a slightly tacky, brushable residue
- Faster, repeatable heating using time based profiles by tool outer diameter (OD) and target temperature
- Safer operations with no combustion gases, controlled heat zone, and clear stand-off boundaries
- One-person control through the TorqueMaster console with laser-guided alignment

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