

just compact

compact heatsetting

by power-heat-set



New solutions are often only found by those who are willing and prepared to explore new directions.

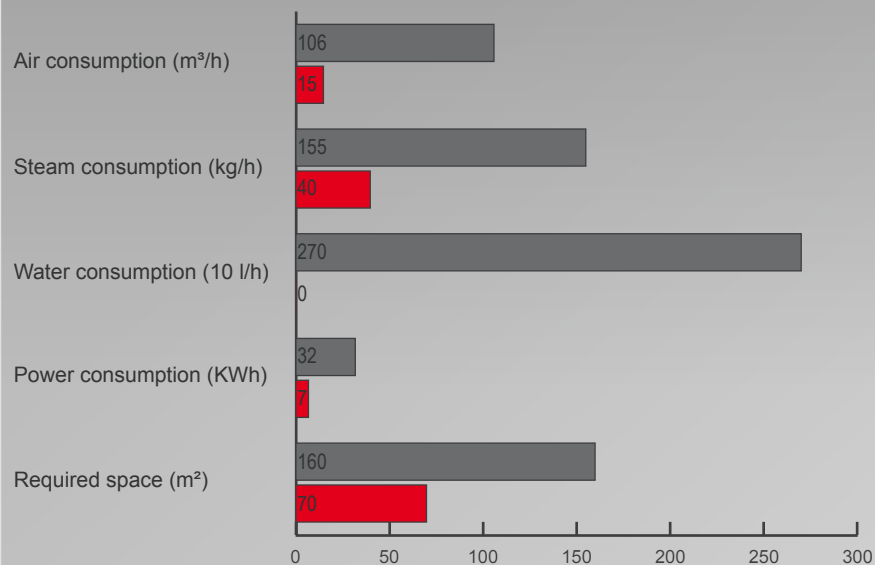
Characteristics

- Materials: PA6, PA6.6, PP, acrylic, PES, wool
- Number of ends: 24
- Throughput: up to 250 kg/h (550 lbs/h)
- Yarn input speed: up to 700 m/min
- Saturated steam process: up to 140°C
- Integrated yarn cooling
- Vertical material throughput with minimal points of contact (yarn contact points)
- Controlled yarn take-up and take-off
- Possibility of varying the bulk
- Controlled yarn tension during winding up
- Constant winding up speed
- Quickstop after yarn breaks
- No heating, no water consumption
- Steam consumption between 30 and 40 kg/h (66 and 88 lbs/h)
- Power consumption up to 7 kWh
- Air consumption up to 15 m³/h (9 cu.ft./min)
- Required space (creel, compact heatsetting, winding machine): a total of: 14 x 5 m (46 x 16 ft)



compact heatset sets the standard

The optimum combination of many years of technical expertise and breakthrough innovations has resulted in the creation of Compact Heatsetting. Compared to the state of the art, Compact Heatsetting provides a considerable reduction in energy consumption. The following table is an approximation of the figures for comparison.



Resource consumption based on 240 kg/h yarn production (compact (red))

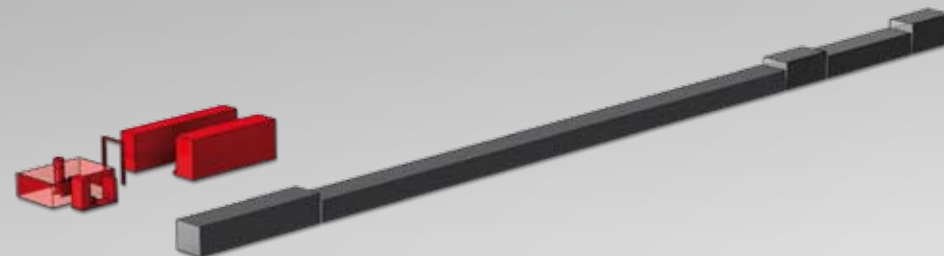
Our desire for simplification was the primary motive for our engineers to develop the Compact Heat Setting method.

Compared with other machines, that means very easy operation with convenient handling and maintenance.

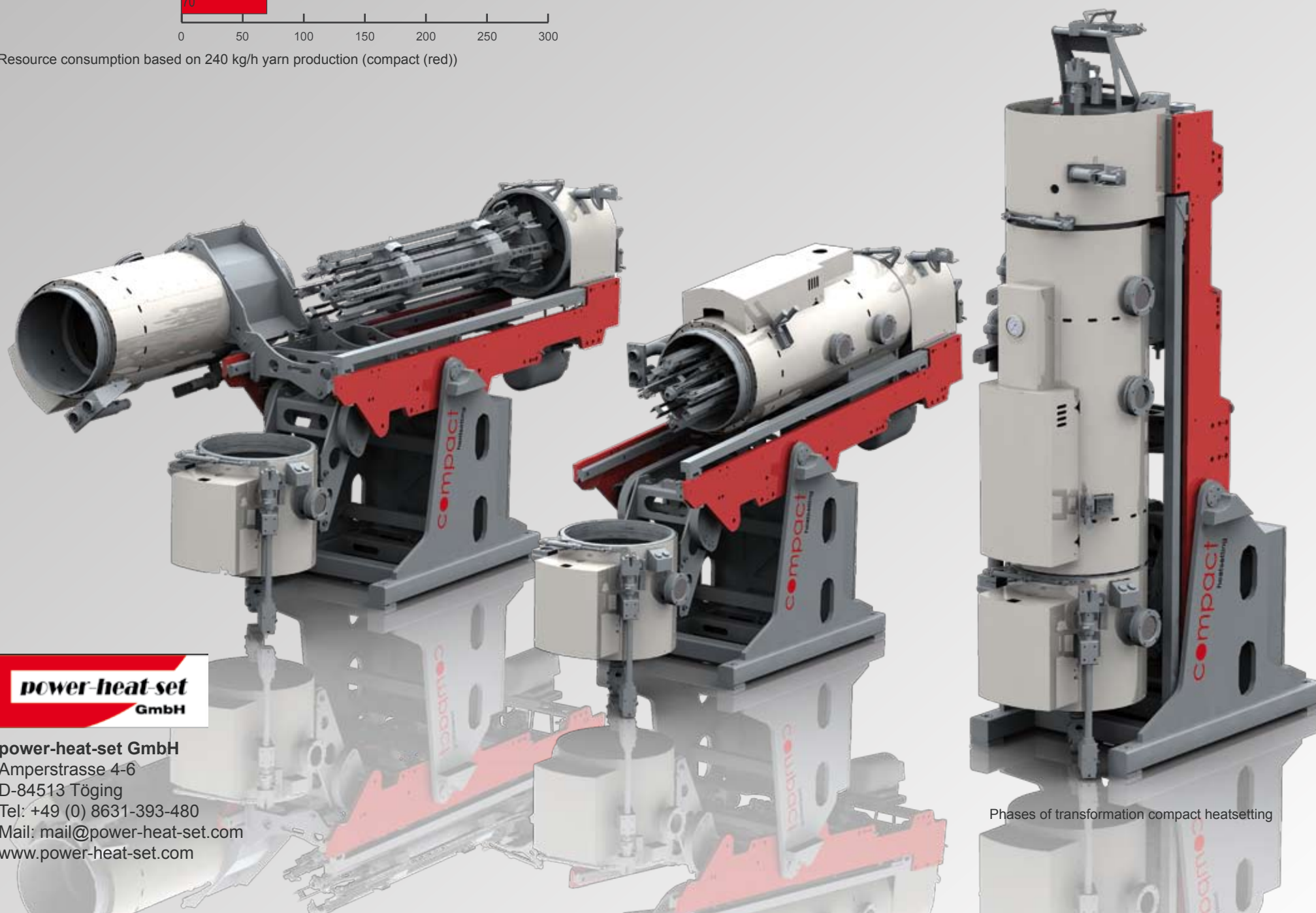
For example, by just the push of a button, the machine can be moved to a selected position to allow user access to any assembly or component.

Depending on the desired operation, the user may select “start-up position”, “production position”, “service position” or “test position” (for preliminary testing).

All told: Optimized ease of use with minimal operator effort!



Area ratio compact (red) and state of the art



Phases of transformation compact heatsetting

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compact heatsetting

New, progressive concepts together with state of the art technology have been combined to create a completely new method of heat setting yarns.

The yarn is treated consistently and gently, using saturated steam under pressure. The machine's yarn transport system is completely new and unlike anything else in existence in the industry. Process stability brought about by precise movement of the yarn and maximum exposure of the yarn to the climate result in high yarn quality previously not possible because of process limitations.

Resulting from more than 30 years of experience, a completely new concept providing a much more ergonomically operable machine has been developed.

Easy access for all operation and maintenance functions is guaranteed. Because of compact size, accessibility and a very direct yarn path it is easier than ever for a single operator to observe and reach all components of the system from creel to winder. The yarn path is laid out for maximum access with minimum effort. Each step of the design process was

completed with the operator and technician in mind. Access to the inside of the machine is simple and mechanically actuated.

The Compact Heat Setting method results in previously unattainable ecological results, addressing the environmental requirements of today and of the future.

Energy requirements are extremely low when compared with all current heat setting methods. An optimized thermodynamic process, together with a compact design provides a safe, cost effective and efficient machine like nothing on the market before.

Plant thermodynamic efficiency can be enhanced further by putting to work the energy released by the cooling process.

Quality, labor cost, accessibility, floor space, efficiency, ergonomics, energy cost, safety and ecological impact all are given significant advances by the new Compact Heat Setting.



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