

special offer

Get started with the THERM DRILL

**START UP KIT**



**365,00 Eur**  
FORM

**398,00 Eur**  
CUT

**START UP KIT M8** With this Start-Up kit you receive the basic equipment for thermal drilling consisting of: 1 Thermdrill M8 "Form" or "Cut", 1 Ontool tap threader M8, 1 Tool-Holder with Alu-Cool Ring, 1 Collet for M8, 1 Container Paste and Tapping Oil.

Special price offer for a limited time only. Taxes, duty & shipping costs will be added extra.

**TOOL SET**



**THERM DRILL TOOL SETS**

- Use the price advantage! The Thermdrill Tool Sets always consist of a Thermal friction drill in the desired size and the compatible Ontool tap threader.

Prices available on request.

Your ONTOOL Original Equipment Dealer:

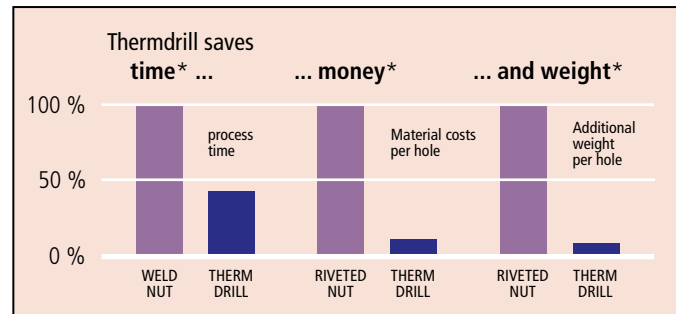
Ontool Engineering - Quality and experience

Ontool is your reliable partner in industry and trade worldwide - whether for minimal or mass production

We offer:

- consulting with high-level technical competence
- punctual delivery
- hotline for technical questions

**THERM**DRILL  
Thermal Friction Drilling Performance



\* The comparative values are based on an M8 thread application in 2,0 mm steel with a comparison quantity of 1000 processes. The values may vary according to application.

Our service team will be pleased to answer any questions you may have on the subject of thermal friction drilling:

Hotline: +49 (0)6071 / 302 329 or [info@ontool.eu](mailto:info@ontool.eu)

Further information is available online at [www.ontool.eu](http://www.ontool.eu)

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The cost-saving alternative to weld and rivet nuts plus other joining techniques

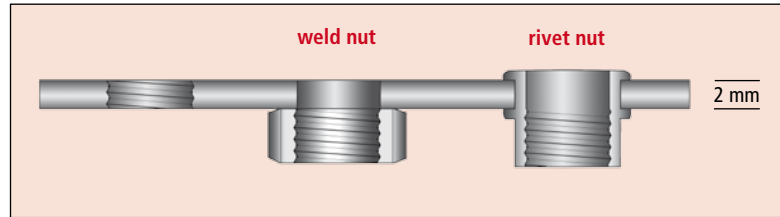


Thermdrills can be used for:

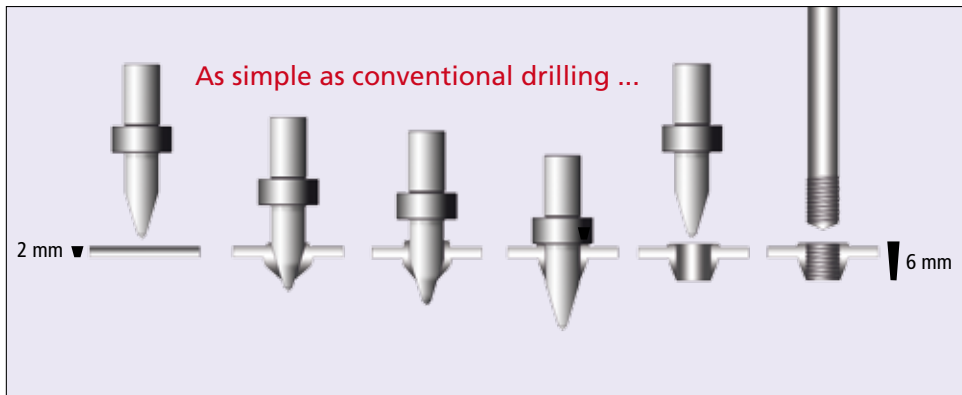
- Screwed connections
- Soldered and welded joints
- Bearings/fittings
- Thread-forming tapping screws
- Tube expansions

## Screwed connections with low wall thicknesses – time-consuming and expensive?

When working with thin-walled materials, you often find yourself confronted with the problem that it is only possible to make 1-2 threads. Generally speaking, this number of threads is not sufficient for supporting a load. In the past, the solution to this problem was to use rivet, weld or clinch nuts. Every practitioner is well aware of the drawbacks of these traditional joining techniques.



## Thermal friction drilling – the time and cost-saving alternative!



A combination of drilling and forming, using the Thermdrill tools not only produces a precision hole without cutting, but also the displaced material is used at the same time for producing a bushing hole – entirely without the use of additional materials! It is possible to make up to three times as many threads in this local thickening of the material. Resulting in a highly stable screwed connection, capable of satisfying even the most strength and fit, quality requirements.

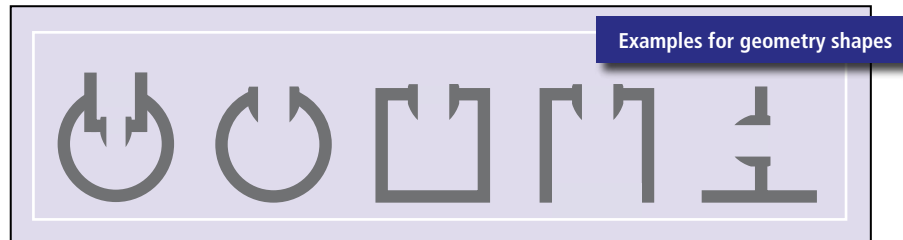
## Geometry and suitable material qualities

Thermdrills can be used for a wide range of diameters and wall thicknesses. The strengths of thermal friction drilling really come into their own when working with closed hollow profiles, such as tubes. When working with circular tubes, the Thermdrill technique

offers a decisive advantage. The material that is displaced upwards automatically forms a collar, which in turn compensates for the curvature of the tube and also provides an ideal flat surface for nozzles, valves, etc.

### Suitable material qualities and thicknesses

The thermal friction drilling technique is suitable for metallic materials such as structural steel, stainless steel, brass, aluminum, copper and numerous special alloys. 1,0 mm to 10,0 mm

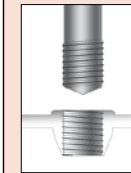


## One technique – 5 typical applications



### Examples

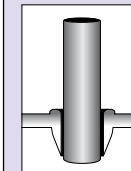
#### Screwed connections



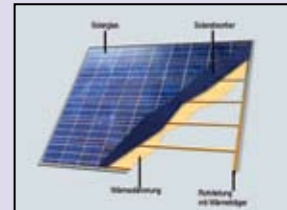
Railings must be capable of withstanding dynamic loads



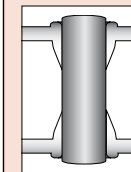
#### Soldered and welded joints



Solar systems are subject to high thermal loads



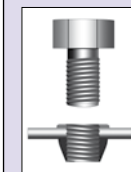
#### Bearings/Fittings



Automotive steering systems call for a high degree of precision



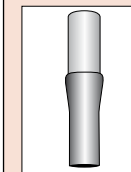
#### Thread-forming tapping screw



Time and cost saving in series production



#### Tube expansions



Tube expansions guarantee secure joining

