

Nibbler for fiber
composite materials

Versatile use,
unique cutting



No. 2347154_xxxxxx_S – Subject to change

Clean, precise, flexible

Accuracy and clean cutting edges pose real challenges when it comes to the manual cutting of fiber composite materials. Fraying and delamination frequently occur. In addition, smoke and hazardous dust may form during material cutting. The world's first nibbler for cutting fiber composite materials of any kind makes these difficulties a matter of the past.

Developed by experts

The nibbling method comprises continuous punching of the workpiece, in which the punched out material occurs in the form of chips. For metal processing, we have already perfected this cold separation process. As a longstanding specialist for hand-held power tools for metal processing, we have now developed the FCN 250 nibbler to allow processors of composite fiber materials to also benefit from this technology.

„Until now the manual rework of fiber-reinforced composites has been complex and time-consuming. Now the nibbler allows me to work with all-round efficiency.“



Roland Hoffmann, Head of Operations,
Connova AG, Switzerland

Your benefits

- Precise working
- Perfect cutting edge
- Low dust formation during cutting
- Full freedom of movement
- Cuts all common fiber composite materials, even aramide



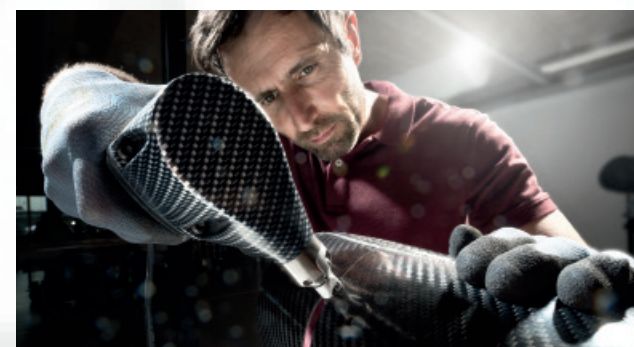
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Easy handling, full flexibility

With the fiber composite material nibbler, you have a clear view of the cutting line. Thanks to the 360 degree tool, you can cut flexibly in any desired direction. This allows you to quickly and accurately process even three-dimensional workpieces as well as hard to reach areas. In the process, the machine has an extreme high curve flexibility. This allows you to make precise cut-outs on a flaw, as well as cutting straight lines or working in narrow radii.

Flexible in use



Straight-line cuts on scribed lines



Curved cuts



Cutting templates



Ideal also for aramid

TruTool FCN 250

Fiber composite material nibbler



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High stability
Aluminum cast housing
for maximum longevity

Health-friendly working
Cold process without smoke, low dust
formation. No harmful formation of
dust

Wide range of applications
Suitable for CFRP, GFRP, AFRP,
thermosets and thermoplastics

Outstanding cut quality
No delamination or fraying

Full processing freedom
Change cutting direction by 360°



Further benefits

- Fast and fatigue-free working without forward force
- Ergonomically optimized weight distribution of all components
- Machine ready to use in no time without any adjustment
- Highest curve maneuverability - thanks to hollow round punch
- Tool-free punch and die change
- Low operating costs due to high tool life

If you have any questions regarding the nibbler and its accessories, please feel free to contact us:
Find your contact at www.trumpf.com

Accessories

The nibbler comes with all necessary accessories; thus, it is ready for use in next to no time without any adjustment work. In addition to the supplied accessories, TRUMPF offers optional accessories that allow you to tailor the machine to your needs and requirements. All accessories are easy and quick to replace. This saves time and increases efficiency.



Tool consisting of punch guide,
punch, die (included)

Order number
1 piece 2086776



Standard punch (included)

Order number
1 piece 2306491
Set of 5 2306492



Set (2x standard punch, 1x standard
die)

Order number
1 piece 2306495



Suction unit for chips (hose, die,
connecting piece)

Order number
1 piece 2294435



Standard die

Order number
1 piece 2322870
Set of 2 2322881



Punch guide standard (included)

Order number
1 piece 2306496



Punch guide for stencil cutting

Order number
1 piece 2322882



Die for suction unit

Order number
1 piece 2306493
Set of 2 2306494

Order numbers machines					
Version	DE	CH	GB	USA	CN
230 V, 50/60 Hz	2086919	2086920			
110 V, 50 Hz			2086951		
120 V, 60 Hz				2086952	
220 V, 50 HZ					2086954

Technical Data		
		TruTool FCN 250
Max. sheet thickness	mm	2,5
Working speed	m / min	1,9
Min. start hole diameter	mm	17
Smallest radius	mm	4,3
Rated input power	W	550
Strokes at nominal load	1/min	1.300
Weight without cable	kg	1,8

Änderungen vorbehalten. Maßgeblich sind die Angaben in unserem Angebot und unserer Auftragsbestätigung.



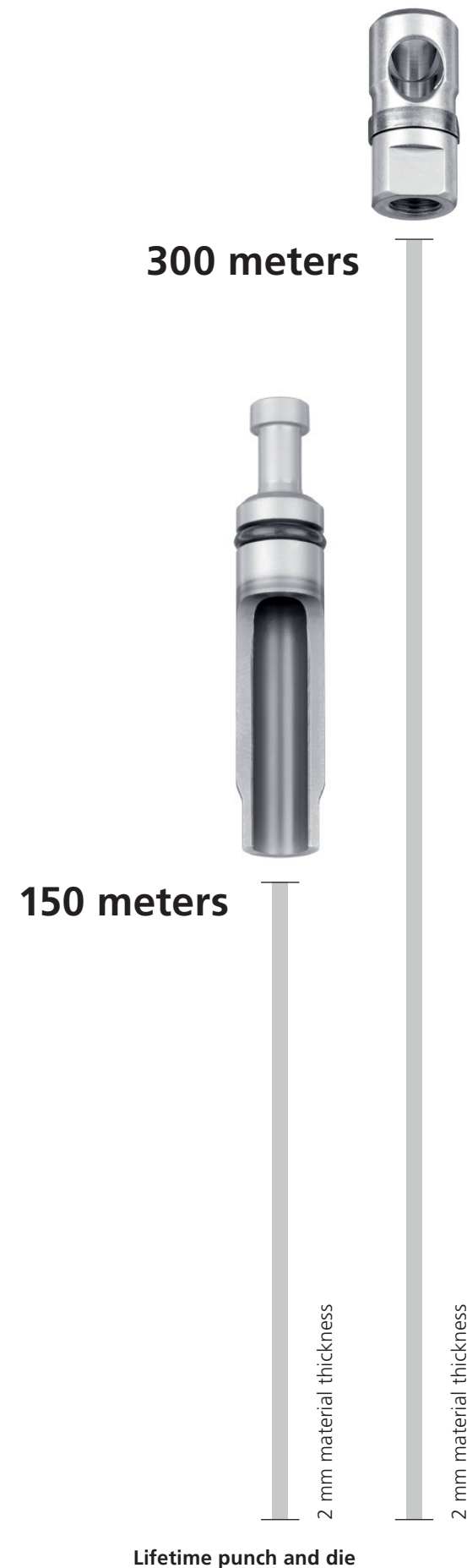
Cost savings as high as

50%

per meter compared to methods of competitors!

More meters, low cost

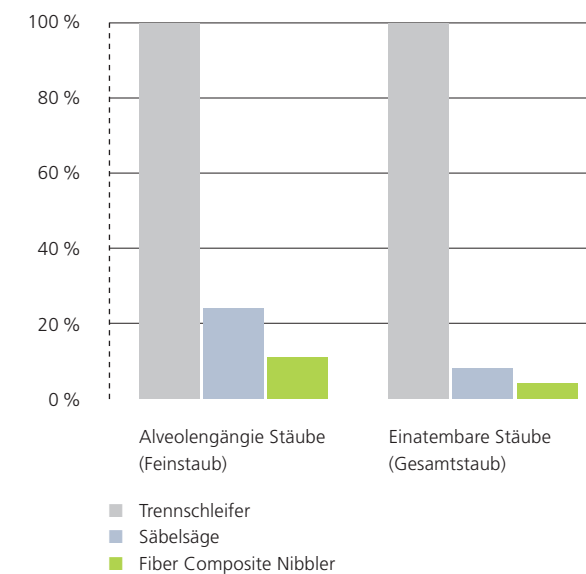
Punches and dies have particularly long service life due to the use of ultra hard cutting material. In the process, a costly diamond coating can be avoided, thus making the cost of consumables relatively low. When cutting very thin work-pieces, the service life once again increases significantly, making the process a more economically efficient solution.



Chips instead of dust

Nibbling results in only a very small amount of dust that is clearly below recommended limits. This enhances occupational safety and health. Personal protective equipment is not necessary thus significantly enhances the work comfort. The punched out material is in the form of chips, which can be swept together without forming any dust. The chips can also be removed directly using the exhaust unit.

**Durchschnittliche Staubkonzentration
(Werte in Prozent)**
Material: GFK 2,5 mm



5

Garantie
 Warranty
 Garanzia
 Garantia

5-year warranty

Our machines are „Made in Switzerland“ – that stands for highest quality and assurance, you can rely on. Register online at www.trumpf.com within four weeks from the date of purchase, to extend your statutory warranty free-of-charge to a 5-year warranty and benefit from our extensive support.

Legend



Quick & Easy
Fast and easy tool change.



Light weight
Low-weight machine for fatigue-free-use.



Low-vibration
For minimal vibration and maximum user-friendliness.



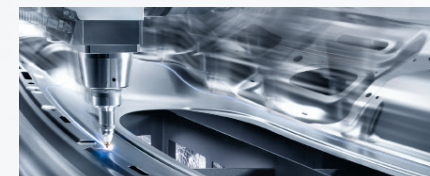
Optimum protection
Avoidance of hazardous.

Our drive: Passion

Whether production and manufacturing technology, laser technology or material processing: We develop highly innovative products and services that are industrial quality and proven absolutely reliable. We give it our all to achieve competitive advantages for you: Know-how and experience.

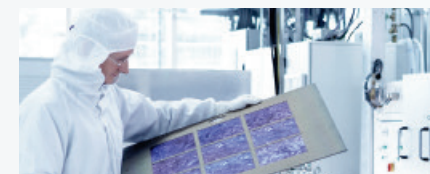


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Lasers for manufacturing technology

Whether macro, micro or nano: we have the right lasers and the right technology that is innovative and at the same time cost-efficient for every production application. Beyond the technology, we provide you with system solutions, application knowledge and consulting.



Power supplies for high tech processes

From semiconductor manufacturing to solar cell production: with our high and medium frequency generators, power for induction heating and plasma and laser excitation receives a defined form consisting of frequency and power – that is highly reliable and repeatable.



Machine tools for flexible sheet metal- and tube processing

Laser cutting, punching, bending, laser welding: for all processes in flexible sheet metal production, we offer you precisely tailored machines and automation solutions, including consulting, software and services – so you can reliably produce your products in high quality.



Power tools for metal processing

Cutting, fastening, bevelling: our power tools offer the most innovative technology and the highest quality. Original accessories and a free 5-year warranty provide extra security. Whether on construction sites or in job shops: High-quality and long-lasting machines are our quality promise.



Industry 4.0

The solutions world TruConnect connects man and machine through information. It covers all steps in the manufacturing process – from quote to the shipment of parts.