

Operator's manual



TruTool PN 130 (1A5)

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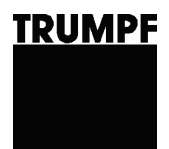


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1. Safety

1.1 General safety information

⚠ WARNING

Read all safety warnings and all instructions.

- Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury
- Save all warnings and instructions for future reference.

⚠ DANGER

Risk of fatal injury due to electric shock!

- Check recharger and rechargeable battery for damage before each use.
- Do not insert damaged battery casing into the recharger.
- Do not touch electric contacts of the recharger and battery.
- Store recharger and battery in dry places and do not operate them in damp rooms.
- Clean recharger regularly.
- Maintenance may be carried out by trained specialist technicians only.
- Use original accessories of TRUMPF only.

⚠ WARNING

Risk of injury from rechargeable battery!

- Remove the rechargeable battery from the machine before all maintenance work.
- Only operate the machine with the listed rechargeable batteries, see table at end of document with consumables and accessories.
- Only charge the machine using the listed rechargers, see table at end of document with consumables and accessories.
- Do not open rechargeable batteries or rechargers.
- Do not throw rechargeable batteries into fire or domestic waste.
- Protect rechargeable batteries against heat, for example, constant exposure to sunlight or fire.

⚠ CAUTION

Respiratory irritation due to vapors leaking from damaged rechargeable batteries!

- Make sure there is a supply of fresh air.
- If symptoms develop, consult a doctor.

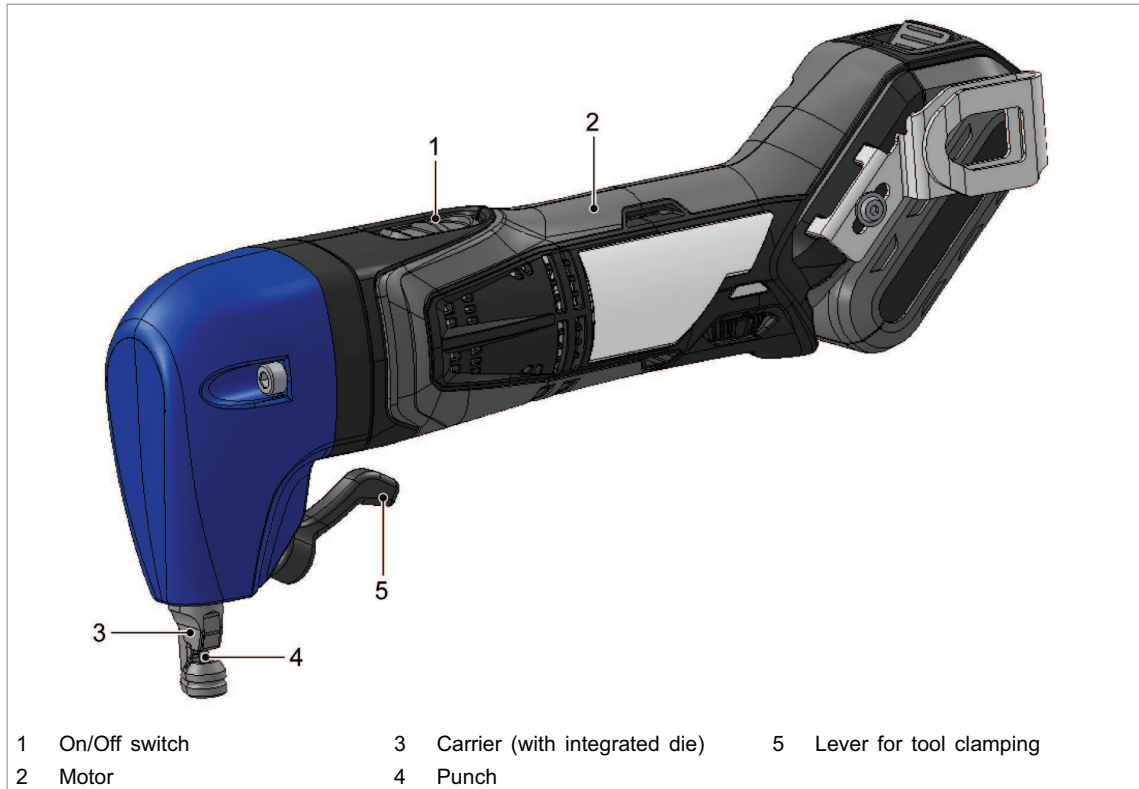
1.2 Specific safety information for profiling nibbler

 **WARNING**

Risk of injury to hands.

- Do not reach into the processing line with your hands.
-

2. Description



TruTool PN profiling nibbler PN 130 (1A5)

Fig. 73107

2.1 Intended use



Damage to the machine due to improper handling.

- Only use the machine for work and materials as described under "Intended use."

The TRUMPF profiling nibbler TruTool PN 130 is hand-held power tool for the following applications:

- For slitting sectional sheets such as trapezoidal sheet, corrugated sheet, boxed sheet, offset profiled strips.
- Slitting plate-shaped workpieces made of a punchable material such as steel, aluminum, non-ferrous heavy metals and plastic.
- Nibbling straight or curved exterior and interior cutouts.
- For nibbling from scribed lines.

Note

The nibbling process produces cutting edges free of deformations.

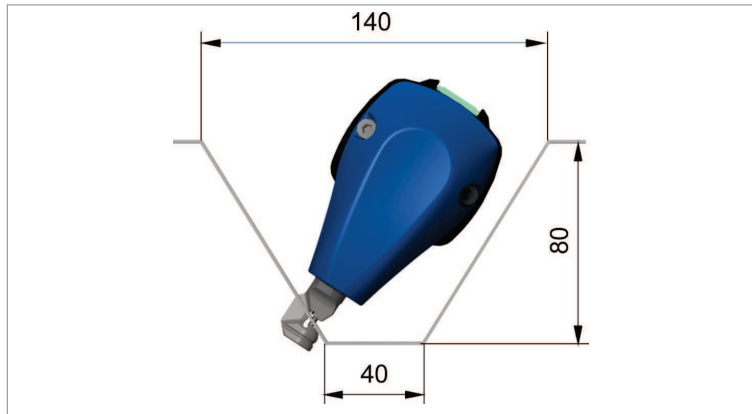


Fig. 52873

2.2 Technical data






TruTool PN 130 (1A5)	Other countries	USA
Voltage	10.8 V	10.8 V
Permissible material thickness: steel up to 400 N/mm²	1.3 mm	0.051 in
Permissible material thickness: steel up to 600 N/mm²	0.8 mm	0.031 in
Permissible material thickness: aluminum up to 250 N/mm²	2.0 mm	0.078 in
Working speed	2.5 m/min	8.2 ft/min
Idle stroke rate	2600/min	2600/min
Weight with rechargeable battery (2.0 Ah)	1.4 kg	3.1 lbs
Radius (hole)	25 mm	0.98 in
Starting hold diameter	15 mm	0.591 in
Cutting track width	5 mm	0.197 in

Tab. 1

2.3 Icons

Note

The following symbols are important for reading and understanding the operator's manual. The correct interpretation of the symbols will help you operate the machine better and safer.

Icon	Name	Description
	Read operator's manual	Read the operator's manual and safety information in their entirety before starting up the machine. Closely follow the instructions given.
	Disposal	Batteries may not be disposed of in domestic waste! They contain harmful substances which are damaging to health and the environment. All dealers of TRUMPF machines in the EU and the USA accept empty batteries without charge.
Ni Cd		The characters under the symbols stand for: Battery contains nickel Battery contains cadmium
	Information symbol	Do not throw batteries into fire.
	Information symbol	Do not charge a damaged battery, but replace it immediately.
	Direct current	Type or property of current
V	Volt	Voltage
Ah	Ampere hours	Electrical load
Wh	Watt hours	Electrical work
mm	Millimeters	Dimensions e.g.: material thickness, chamfer length
in	Inch	Dimensions e.g.: material thickness, chamfer length
n _o	Idle speed	Revolution speed without load

Tab. 2

2.4 Noise and vibration information

⚠ WARNING

Noise emission value may be exceeded.

- Wear hearing protection.



The vibration emission value can be exceeded!

- Select the right tools and exchange them in time in the event of wear.
- Have maintenance carried out by trained specialized technicians.
- Define additional safety measures for protecting the operator from the effect of vibrations (e. g. keep hands warm, organization of working procedures, machining at normal feed force).
- Depending on the operating conditions and state of the electric tool, the actual load might be higher or lower than the specified measured value.

Notes

- The specified vibration emission value was measured in accordance with a standardized testing procedure and can be used to compare one electric tool with another.
- The specified vibration emission value can also be applied for a provisional estimate of the vibration load.
- Times during which either the machine is switched off or running but not actually in use can considerably reduce the vibration load during the entire working period.




Designation of measured value	Unit	Value according to EN 60745
Vibration emission value a_h (vector sum of three directions)	m/s^2	6.8
Uncertainty K for vibration emission value	m/s^2	2.0
A-class acoustic pressure level L_{pA} typically	dB (A)	73.5
A-class acoustic power level L_{WA} typically	dB (A)	84.5
Uncertainty K for noise emission value	dB	3

Tab. 3

3. Setting work

3.1 Select tool

- There are 2 tool variants available for processing:

	Standard tool	Tool S
Application	Tool for all applications	Tool for precise and clean cutting (slow feed)
Identification	-	Yellow coated. With identification groove under the punch head
Punch		
Carrier		

Tab. 4

3.2 Setting the speed

- Set setting wheel for the speed controller to the corresponding value, depending on the use.

3.3 Chip bag (optional)

A chip bag can be used to catch the chips.



TruTool PN 130 with chip bag

Fig. 73190

4. Operation

⚠ WARNING

Damage to the machine due to improper handling.

- Wear safety glasses, hearing protection, breathing protection, protective gloves and working shoes when working.
- Maintenance may be carried out by trained specialist technicians only.

4.1 Switching the TruTool PN 130 (1A5) on and off

Switching on the machine

Note

If the power tool does not work after it has been switched on, check if the batteries have been fully recharged.

1. Slide the On/Off switch forwards.
2. Slide the On/Off switch to the rear.

Switching off the machine

4.2 Working with TruTool PN 130 (1A5)

Note

In order to improve the cutting result and increase the service life of the punch, coat the cutting track with oil before machining the workpiece.

Material	Oil
Steel	Punching and nibbling oil (0.5 l, order number 103387)
Aluminum	Wisura oil (1 l, order no. 125874)

Tab. 5

Note

Do not move the machine towards the workpiece until full speed has been reached.

1. Edit material.
 - Process the desired cutting line.
2. If the cutting track ends in the sheet: retract the running machine a few millimeters in the direction of the already free-cut cutting track.
3. Switch off machine.

4.3 Changing the cutting direction

The direction of the cut can be rotated to the right or the left in 8 indexed positions (all 45°) or rotated freely as needed.

- Set the tool for right-hand/left-hand operation.
- Process profile sheets.

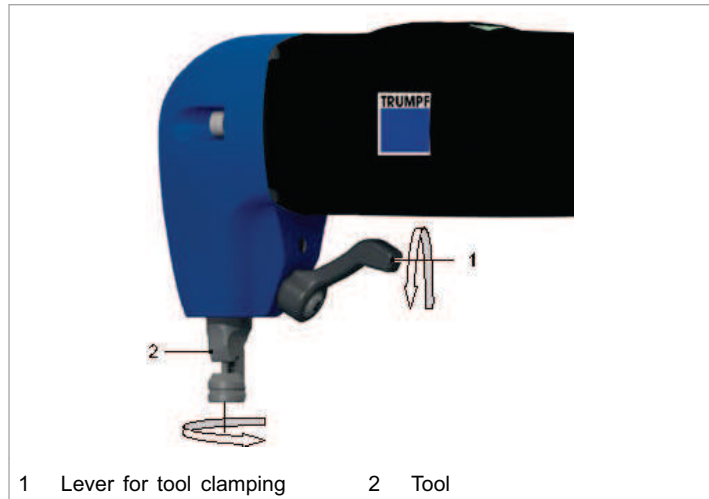


Fig. 52867

1. Release the lever (1) for tool clamping (½ turn).
2. Turn the tool (2) in the desired direction.
3. Tighten the lever (1) again (parallel to the motor).

4.4 Producing interior cutouts

- Make a start bore of at least Ø 15 mm.

5. Maintenance

⚠ WARNING

Risk of injury from rechargeable battery!

- Remove the rechargeable battery before changing the tool or undertaking any maintenance work on the machine.

⚠ WARNING

Risk of injury due to incorrect repair work

Machine does not work properly.

- Maintenance may be carried out by trained specialist technicians only.

⚠ CAUTION

Damage to property caused by blunt tools!

Machine overload.

- Check the cutting edge of the punch hourly for wear. A sharp punch provides good cutting performance and is easier on the machine.
- Change the punch in a timely manner.

Maintenance point	Procedure and interval	Recommended lubricants
Punch	Regrind/replace as needed.	-
Ventilation slots	Clean as needed	-
Carrier	Change if needed / lubricate after tool change	Lubricating grease "G1"
Gearbox and gear head	Every 300 operating hours, have a trained specialist relubricate or replace the lubricating grease.	Lubricating grease "G5"
rechargeable battery	Change as needed	-

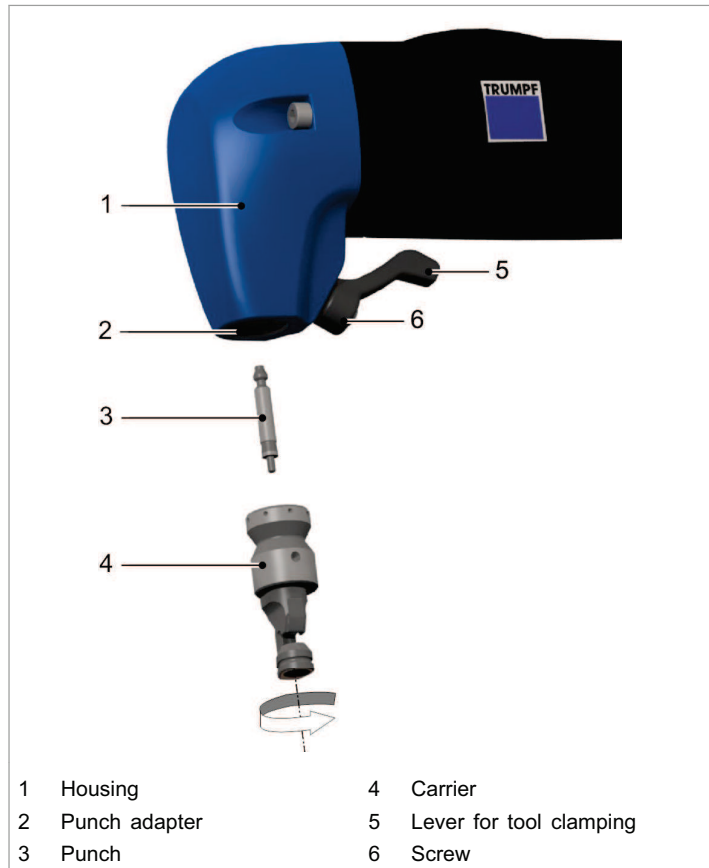
Maintenance positions and maintenance intervals

Tab. 6

5.1 Replacing the tool

Note

A blunt punch can cause the carrier to break.



Replacing the tool

Fig. 52864

- Change the punch and/or the carrier.

5.2 Disassembling the punch

1. Loosen the lever (5) by at least three turns.
2. Pull the carriers (4) out of the housing (1).
3. Remove the punch (3).

5.3 Installing the punch

1. Lubricate the punch (3) and carrier (4) with "G1" lubricating grease.
2. Hang the punch (3) in die keyway of the punch adapter (2).
3. Insert the carrier (4) in the housing (1).
4. Tighten the lever (5).

5.4 Changing the carrier

1. Loosen the lever (5) by at least three turns.
2. Remove the carrier (4)
3. Insert a new carrier (4) in the housing (1).
4. Tighten the lever (5).

5.5 Checking loading status

Color of the lamp	Loading status
Green	Full
Orange	Half-full
Red	Load soon.

Tab. 7

- Switch on the machine.

The lamp which shows the loading status illuminates for 5 seconds.

5.6 Changing rechargeable battery

Condition

- Machine is switched off.

Taking out exchangeable battery



Changing rechargeable battery

Fig. 73106

Inserting exchangeable battery

1. Trigger locking mechanism and pull out exchangeable battery in arrow direction.
2. Insert rechargeable battery into the mounting device from above until the battery snaps into place.



6. Accessories and consumables

Name	Scope of delivery	Consumables	Accessories	Order number
Punch (2-piece set)	-	x	-	1474333
Punch (5-piece set)	-	x	-	1474334
Punch (10-piece set)	-	x	-	1474335
Punch S (2-piece set)	-	x	-	1474336
Punch S (5-piece set)	-	x	-	1474337
Punch S (10-piece set)	-	x	-	1474338
1 carrier 2 punches	-	x	-	1474339
1 carrier 2 punches S	-	x	-	1474370
Lubricating grease "G1" tube (25 g)	-	x	-	0344969
Lubricating grease "G5" can (900 g)	-	x	-	1954202
Punching and nibbling oil for steel (0.5 l)	-	-	x	0103387
Punching and nibbling oil for aluminum (1 l)	-	-	x	0125874
TRUMPF Box S1	x	-	X	1763681
TRUMPF Box S105 lining	x	-	X	1936845
Chip bag	-	-	X	1460314
Operator's manual	x	-	-	1940831
Safety notes	x	-	-	0125699
TRUMPF 10.8 V 2.0 Ah	x ¹	-	-	1886525
TRUMPF 10.8 V 4.0 Ah	-	-	X	1886526
Recharger 100 - 240 V, 50/60 Hz (D)	X ¹	-	-	1886527
Recharger 100 - 240 V, 50/60 Hz (USA)	X ¹	-	-	1886528
Recharger 100 - 240 V, 50/60 Hz (CH)	X ¹	-	-	1886529
Recharger 100 - 240 V, 50/60 Hz (GB)	X ¹	-	-	1886530

Tab. 8

6.1 Ordering consumables

Note

The following data must be specified in order to ensure that parts are delivered correctly and without delay.

1. Specify the order number.
2. Enter further order data:
 - Voltage data
 - Quantity
 - Machine type
3. Specify the complete shipping information:

1 Depending on the type of machine ordered



-
- Correct address.
 - Desired delivery type (e.g. air mail, courier, express mail, ordinary freight, parcel post).

Note

For TRUMPF service addresses, see
www.trumpf-powertools.com.

4. Send the order to the TRUMPF representative office.

7. Appendix: Declaration of conformity, guarantee, replacement parts lists

Operator's manual



Recharger

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1. Safety

1.1 General safety information

 **WARNING**

Read all safety warnings and all instructions.

- Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury
- Save all warnings and instructions for future reference.

 **DANGER**

Risk of fatal injury due to electric shock!

- Check recharger and rechargeable battery for damage before each use.
- Do not insert damaged battery casing into the recharger.
- Do not touch electric contacts of the recharger and battery.
- Store recharger and battery in dry places and do not operate them in damp rooms.
- Clean recharger regularly.
- Maintenance may be carried out by trained specialist technicians only.
- Use original accessories of TRUMPF only.

 **WARNING**

Risk of injury from rechargeable battery!

- Remove the rechargeable battery from the machine before all maintenance work.
- Only operate the machine with the listed rechargeable batteries, see table at end of document with consumables and accessories.
- Only charge the machine using the listed rechargers, see table at end of document with consumables and accessories.
- Do not open rechargeable batteries or rechargers.
- Do not throw rechargeable batteries into fire or domestic waste.
- Protect rechargeable batteries against heat, for example, constant exposure to sunlight or fire.

⚠ CAUTION**Improper handling of the charging device!**

- The recharger may be used by persons (including children) with limited physical, sensory or mental capabilities if they have been instructed how by authorized persons beforehand.
- Do not charge any non-rechargeable batteries.
- The recharger is not a toy. It may be used by children of eight years of age or older. Before use, explain to the child how to use the recharger.
- Children may not handle the recharger unsupervised.

⚠ CAUTION**Respiratory irritation due to vapors leaking from damaged rechargeable batteries!**

- Make sure there is a supply of fresh air.
- If symptoms develop, consult a doctor.

1.2 Specific information for recharger

⚠ DANGER**Risk of fatal injury due to electric shock!**

- Check the cables, plugs and casing of the recharger for damage before every use.
- Do not use damaged rechargers.

⚠ CAUTION**Fire hazard as a result of heat generating during the recharging process!**

- Do not place recharger on easily flammable material (e.g. paper, textiles, etc.).
- Do not use charger in flammable environments.

2. Description

2.1 Intended use

The following batteries can be charged with the recharger:

- TRUMPF rechargeable battery Li-ion 2.0 Ah (order number 1886525).
- TRUMPF rechargeable battery Li-ion 4.0 Ah (order number 1886526).

The durability of a rechargeable battery depends on how it is used. The battery has been developed to ensure a long and trouble-free service life. It is possible however, that the battery will be subject to wear.

To ensure the maximum service life, the battery should be used under the following recommended conditions:

- Store and recharge the battery in a cool place. Temperatures above and below normal room temperature shorten the service life of the battery.
- Never store the battery when it has no charge. Immediately recharge empty batteries.
- The capacity of a rechargeable battery gradually decreases. The higher the temperature the faster this occurs. If the battery is not used for a longer period of time, charge it every month or two. This procedure will lengthen the service life of the battery.

2.2 Technical data

Recharger	Values
Voltage	100 – 240 V
Frequency	50/60 Hz
Output voltage	12 VDC

Tab. 1

3. Operation

3.1 Recharging the battery

Condition

- The plug is attached to the recharger and plugged into a socket.

After approx. 5 seconds all three recharger display lights on for 2 seconds and then off again - the necessary voltage is now available to the recharger.

1. Put a rechargeable battery properly into place in the recharger.

The charging process begins. The recharger display lights show the charging status.

The charging procedure takes 30-60 minutes depending on the battery.

Note

The charging times may also be longer, depending on the ambient temperature and the condition of the battery.

2. After charging the rechargeable battery, remove it from the recharger.



4. Help in the case of problems

Problem	Reason	Correction
Overheating	If the recharger detects that a rechargeable battery is overheating, all three recharger display lights will blink at the same time.	Remove the rechargeable battery and let it cool down for 15-30 minutes.
Rechargeable battery or recharger malfunctioning	Two recharger display light blink at the same time.	Remove the rechargeable battery and let it cool down for 15-30 minutes. Put the rechargeable battery back in the recharger. If two recharger display lights continue to blink the battery or the recharger has to be serviced.

Tab. 2



5. Accessories and consumables

Name	Scope of delivery	Consumables	Accessories	Order number
TRUMPF 10.8 V 2.0 Ah	-	-	X	1886525
TRUMPF 10.8 V 4.0 Ah	-	-	X	1886526
Recharger 100 - 240 V, 50/60 Hz (D)	x ¹	-	-	1886527
Recharger 100 - 240 V, 50/60 Hz (USA)	X ¹	-	-	1886528
Recharger 100 - 240 V, 50/60 Hz (CH)	X ¹	-	-	1886529
Recharger 100 - 240 V, 50/60 Hz (GB)	X ¹	-	-	1886530

Tab. 3

5.1 Ordering consumables

Note

The following data must be specified in order to ensure that parts are delivered correctly and without delay.

1. Specify the order number.
2. Enter further order data:
 - Voltage data
 - Quantity
 - Machine type
3. Specify the complete shipping information:
 - Correct address.
 - Desired delivery type (e.g. air mail, courier, express mail, ordinary freight, parcel post).

Note

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4. Send the order to the TRUMPF representative office.

1 Depending on the type of machine ordered

