

Power Tools  
Cordless Alliance System

# One battery, many solutions



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# Solid tool. Solid result.

Construction work on roofs and facades can be particularly challenging: TRUMPF would like to make this kind of work as easy and safe as possible. So we focused on the reduction of physical strain and developed electrical tools that are light, ergonomic and durable.



## Cordless Alliance System

And there's even more flexibility for you: benefit from 100% rechargeable battery compatibility with a wide variety of partner companies thanks to the manufacturer independent CAS-System.



## Cordless Alliance System

Benefit from 100% compatibility with machines, CAS rechargeable battery packs and rechargers from various manufacturers work in this one system. CAS provides the most efficient rechargeable battery system in the industry from Metabo and over 30 years of experience in rechargeable batteries which is now also available for TRUMPF Power Tools. How do you benefit from this? Highest degree of reliability, clear cost advantages and top investment security.



Cordless Alliance System

## 20 brands, 200 machines, 1 battery

Cordless Alliance System (CAS) is a group of leading electric power tool brands, offering you a large selection of powerful machines. You can easily combine the 18V rechargeable batteries and chargers together. The comprehensive system emphasises sustainability and makes it possible for you to greatly reduce the number of rechargeable batteries in your company.



### 100% compatible

Everything works together: 18V battery-powered machines, rechargeable batteries and chargers from any brand. Clear cost advantage thanks to multiple use of existing rechargeable batteries. No matter if it is Li-Ion or LiHD technology, 2.0 Ah, 4.0 Ah, 5.2 Ah, 5.5 Ah, 8.0 Ah or 10.0 Ah.



### Twice the freedom

CAS means you do not have to depend on cables. You can use machines from different manufacturers with one rechargeable battery.



### Leading rechargeable battery technology

CAS represents a sophisticated rechargeable battery system that you can rely on for standard and special applications.



One batterie, many solutions. 100% compatible.





# Strong: the battery technologie



## Highly productive

- Reliable charging thanks to innovative technology
- Process-controlled charge and discharge management
- Extremely long application with minimum temperature development. Protects the cells.

## Durable

- Long runtime thanks to high-quality materials, intelligent battery management and Power-Head-Technology
- Permanent Electronic Single Cell Protection (ESCP) during charging
- Optimum protection from interior contamination due to complete encapsulation and protective paint

## Ergonomic

- The outer rubber lining around the battery pack ensures it fits safely and does not slip, also serving as shock protection.

## Other advantages

- Rubber buffer protects the cells
- Long storage life, almost no self-discharge
- Conductor rails capable of high current, enlarged contacts and high conductivity thanks to a special copper alloy of the cell connectors
- Capacity display: battery capacity can be checked at any time
- Same recharger for 12V to 36V rechargeable batteries
- 3-year warranty for the rechargeable batteries



## Power-Head-Technology

Designed especially for low voltage found in battery-powered technology. The minimal energy loss results by separating the motor pinion from the motor. This leads up to 20% longer operation time per battery charge.

## Brushless motors

The powerful brushless motors generate higher torques than traditional motors with carbon brushes and are almost free of wear. And even more, the brushless motors use less power and generate almost no heat. This enables you to work up to 40% longer with each battery charge.

## Compatible: one charger for 12V to 36V batteries

- Patented „AIR COOLED“ charging technology: cooling during charging for greatly reduced charging times
- Process-controlled charge and discharge management for gentle charging and maximum number of charging cycles
- One recharger for everything. For charging all 12V-36V Li-Ion and LiHD rechargeable batteries from CAS partners.
- Energy-saving: very low standby rated input

## 18V batteries

- Compact and strong: up to 100% compatible with all 18V products from partners with CAS batteries.



## 12V batteries

- Small and handy. Compatible with the 12V products from partners with CAS batteries.





# The machines at a glance

## With 18V LiHD battery

**Shear TruTool S 250**  
up to 2,5 mm sheet thickness

**Slitting shear TruTool C 200**  
up to 2 mm sheet thickness

**Slitting shear TruTool C 250 with chip clipper**  
up to 2,5 mm sheet thickness

**Nibbler TruTool N 200**  
up to 2 mm sheet thickness

**Profile nibbler TruTool PN 200**  
**Profile nibbler TruTool PN 201**  
up to 2 mm sheet thickness

**Power fastener TruTool TF 350**  
up to 3,5 mm material thickness

## With 12V LiHD battery

**Shear TruTool S 114**  
up to 1,6 mm sheet thickness

**Shear TruTool S 160**  
up to 1,6 mm sheet thickness

**Slitting shear TruTool C 160**  
**Slitting shear TruTool C 160 with chip clipper**  
up to 1,6 mm sheet thickness

**Nibbler TruTool N 160**  
up to 1,6 mm sheet thickness

**Nibbler TruTool N 160 with extension**  
up to 1,6 mm sheet thickness

Shear LiHD battery 18V (also available as body only machine)

# TruTool S 250



**Exceptionally efficient shear:**  
for cutting steel sheet thicknesses up to 2,5 mm

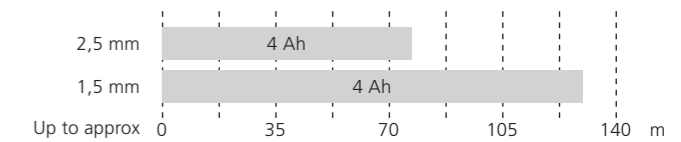
**Ideal for processing flat sheet metal, wire mesh and coil**

**Best possible flexibility in curves:** minimum radius of 20 mm

### Shear TruTool S 250

- Distortion free cutting without thermal influences
- Clear view of the work surface and cutting line
- Minimum force required thanks to optimum cutting geometry
- Doubling service life: thanks to the reversible, four-sided cutter

### Cutting performance per battery charge (steel 400 N/mm<sup>2</sup>)



### Included accessories

Cutter (integrated), hex head wrench 4 mm, hex head wrench DIN 911-2.5, 2x batteries 18V LiHD 4.0Ah, charger LG 12V–36V, TRUMPF Box S2

Technical data		
Max. sheet thickness	TruTool S 250	
Steel 400 N/mm <sup>2</sup>	mm	2,5
Steel 600 N/mm <sup>2</sup>	mm	2
Steel 800 N/mm <sup>2</sup>	mm	1,5
Aluminium 250 N/mm <sup>2</sup>	mm	3
Working speed	m / min	4–7
Start hole diameter	mm	28
Smallest radius	mm	20
Tension	V	18
Weight (with LiHD battery)	kg	2,8
Length / height	mm	337 x 201



Slitting shear LiHD battery 18V (also available as body only machine)

# TruTool C 200

## TruTool C 250 with chip clipper



➤ **Ideal for spiral ducts.** Longitudinal and cross-sections possible.



➤ **Open cutting head:** simple retraction from the metal sheet

➤ **Perfect for interior cuts, notching and curves**



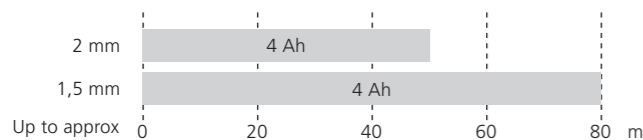
➤ **One-handed operation** with integrated chip clipper



### Slitting shear TruTool C 200

- The machine can be easily withdrawn from the metal sheet without cutting the chip
- For even more specialization, there are six sets of different cutters to combine with the right blades
- Distortion free, high quality cutting
- Accurate starting and cutting
- High cutting speed

### Cutting performance per battery charge (steel 400 N/mm<sup>2</sup>)



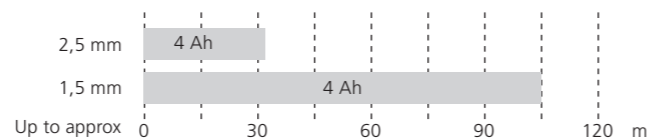
### Included accessories TruTool C 200

Set Spiro integrated (1x cutter SC, 2x corrugated cut guides), Torx-screwdriver, 2x batteries 18V LiHD 4.0 Ah, charger LG 12V–36V, TRUMPF Box S2

### Slitting shear TruTool C 250 with chip clipper

- Chips can be cut easily with one hand at the touch of a button
- Depending on the application, you can choose between five different cutters
- Distortion free, high quality cutting
- Accurate starting and cutting
- High cutting speed

### Cutting performance per battery charge (steel 400 N/mm<sup>2</sup>)



### Included accessories TruTool C 250 with chip clipper

Straight cutter 1,5 mm–2,5 mm (integrated), cut guides (integrated), 2x batteries 18V LiHD 4.0 Ah, charger LG 12V–36V, TRUMPF Box S2

Technical data							
TruTool C 200 LiHD 18V							
Max. sheet thickness		Set Spiro	Set Hig Speed	Set High Quality	Set Thin Sheet	Set Curves	Set CR
Steel 400 N/mm <sup>2</sup>	mm		1,5–2	1,5–2	0,5–1,5	1,5	
Spiral ducts steel 400 N/mm <sup>2</sup>	mm	4 x 0,9/6 x 0,6					
Steel 600 N/mm <sup>2</sup>	mm				1	0,8	1,5
Spiral ducts steel 600 N/mm <sup>2</sup>	mm	4 x 0,6					
Aluminium 250 N/mm <sup>2</sup>	mm		3	3	2	2	
Working speed	m/min	3–10	3–15	3–10	3–10	3–10	3–10
Start hole diameter	mm	8	20	20	16	16	18
Smallest radius	mm	150	150	150	100	L 40/R 80	120
Tension	V	18					
Weight (with LiHD battery)	kg	2,4					
Length / height	mm	394 x 119					

Technical data						
TruTool C 250 with chip clipper LiHD 18V						
Max. sheet thickness		Straight cutter	Straight cutter	Curve cutter	CR cutter	Spiral cutter SC
		1,5 - 2,5 mm	0,5 - 1,5 mm	0,5 - 1,5 mm	0,5 - 1,5 mm	For spiral ducts
Steel 400 N/mm <sup>2</sup>	mm	2,5	1,5	1,5		
Spiral ducts steel 400 N/mm <sup>2</sup>	mm					4 x 0,9/6 x 0,6
Steel 600 N/mm <sup>2</sup>	mm		1	0,8	1,5	
Spiral ducts steel 600 N/mm <sup>2</sup>	mm					4 x 0,6
Aluminium 250 N/mm <sup>2</sup>	mm	3	2	2		
Working speed	m/min	3–10	3–10	3–10	3–10	3–10
Start hole diameter	mm	22	17	15	20	18
Smallest radius	mm	150	80	L 45/R 80	120	150
Tension	V	18				
Weight (with LiHD battery)	kg	2,5				
Length / height	mm	398 x 119				



Nibbler / Profile nibbler LiHD battery 18V (also available as body only machine)

# TruTool N 200, TruTool PN 200 TruTool PN 201

**For flat and corrugated sheet metal**

**For deep trapezoidal sheets**

**2 mm thick:** cuts easily doubled sheets

**For medium-deep trapezoidal sheets, C-L-U-profiles and corrugated sheet metal**

**1 machine - 3 tools:** TruTool N 200, PN 200 and PN 201

**Included accessories**

Tool N 200 or PN 200 or PN 201 (integrated), punch (integrated), die (integrated), punch guide (integrated), wearing plate, Torx-screwdriver, 2 x battery 18V LiHD 4.0 Ah, charger LG 12V–36V, TRUMPF Box S2 (N 200 and PN 200), TRUMPF Box M2 (PN 201)

Technical data				
Max. sheet thickness		TruTool N 200 LiHD 18V	TruTool PN 200 LiHD 18V	TruTool PN 201 LiHD 18V
Steel 400 N/mm <sup>2</sup>	mm	2	2	2
Steel 600 N/mm <sup>2</sup>	mm	1,5	1,5	1,5
Steel 800 N/mm <sup>2</sup>	mm	1	1	1
Aluminium 250 N/mm <sup>2</sup>	mm	2,5	3	3
Working speed	m/min	1,6	1,9	1,9
Smallest radius	mm	4	50	50
Start hole diameter	mm	17	24	24
Tension	V	18	18	18
Weight (with LiHD battery)	kg	2,2	2,2	2,4
Length / height	mm	325 x 201	325 x 194	325 x 363

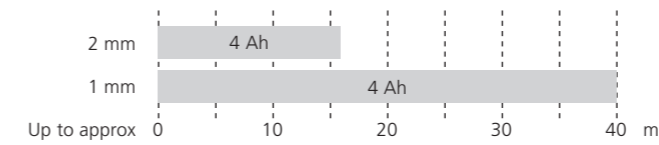
**Nibbler TruTool N 200**

- Hollow round punch for highest curve flexibility. The machine can be turned on the spot.
- Perfect for hard to reach areas, interior cutouts and notches
- Powerful: can even cut doubled sheets
- Tool-free tool, die and punch change
- The tool can be roated 360° in 8 cutting directions, without the need for additional tools
- Clear view of the work surface
- Cold cutting process, distortion and spark-free cutting

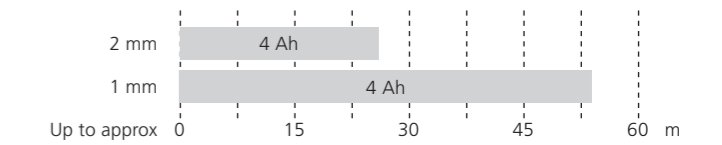
**Profile nibbler TruTool PN 200 + TruTool PN 201**

- Rectangular punch: for high curve flexibility
- Ideal for processing profiles
- Powerful: can even cut doubled sheets
- Machine also available as set
- Tool-free tool and punch change
- The tool can be roated 360° in 8 cutting directions without the need for additional tools
- Clear view of the work surface
- Cold cutting process, distortion and spark-free cutting

**Cutting performance per battery charge (steel 400 N/mm<sup>2</sup>)**



**Cutting performance per battery charge (steel 400 N/mm<sup>2</sup>)**





Power fastener LiHD battery 18V (also available as body only machine)

# TruTool TF 350



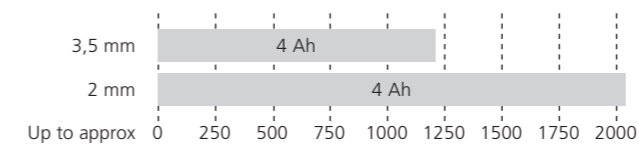
**Connects without interfering contours:** replaces connectors like rivets or screws

### Power fastener TruTool TF 350

- For form-fitting, corrosion-resistant joining in one working step
- Rapid stroke rate – up to two joining points per second
- Minimal setup time of the machine
- Few vibration, silent working
- Joining of different materials, as well as coated and uncoated workpieces

**For joining two or more metal parts**

### Joining per battery charge (Steel 400 N/mm<sup>2</sup>)



### Included accessories

Punch (integrated), titling arm for punch, die arm fixed no. 3 (3 mm–3,5 mm), stripper for straight sheets (integrated), stripper for ducts, hex head wrench DIN 911-6, DIN 911-5 and DIN 911-3, grease gun filled with „G1“, box for small parts, 2 x batteries 18V LiHD 4.0 Ah, charger LG 12V–36V, carrying case


Technical data		
Max. sheet thickness		TruTool TF 350 LiHD 18V
Steel 400 N/mm <sup>2</sup>	mm	3,5
Steel 600 N/mm <sup>2</sup>	mm	2,5
Aluminium 250 N/mm <sup>2</sup>	mm	4
Minimum sheet thickness	mm	0,8
Maximum locking power	kn	25
Maximum stroke power	1/s	2
Edge distance minimum	mm	8
Edge distance maximum	mm	58
Straight flange height maximum	mm	36
Tension	V	18
Weight (with LiHD battery)	kg	8,0
Length / height	mm	454 x 358






Shear LiHD battery 12V (also available as body only machine)

# TruTool S 114 / TruTool S 160




**Extremely compact design**  
to avoid interference contours

Perfect for flush-cutting ventilation pipes



**Narrow curves:** the smallest radius of 15 mm

**Unbeatably small:** short design with compact shearing head



- 12V LiHD
- BL Motor
- 2x TruTool
- U/min
- Stop

- 12V LiHD
- BL Motor
- 4x TruTool
- U/min
- Stop

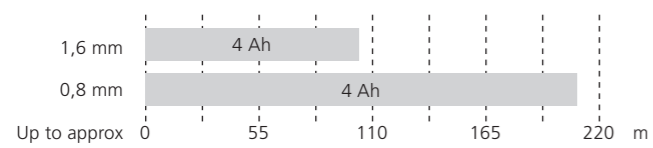
### Shear TruTool S 114

- Precise cutting of ventilation ducts on walls and ceilings
- For cutting and trimming C-L-U profiles, corrugated and trapezoidal sheet metal
- Distortion free cutting without thermal influences
- Clear view of the work surface and cutting line
- Precise cutting, high cutting quality
- Minimum force required thanks to optimum cutting geometry
- Long cutter service life: thanks to the reversible, two-sided cutter

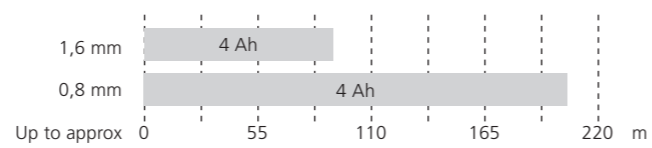
### Shear TruTool 160

- Low machine weight for accurate and comfortable working
- For flat sheets and ventilation ducts
- Distortion free cutting without thermal influences
- Clear view of the work surface and cutting line
- Precise cutting, high cutting quality
- Minimum force required thanks to optimum cutting geometry
- Long cutter service life: thanks to the reversible, four sided cutter

### Cutting performance per battery charge (steel 400 N/mm<sup>2</sup>)



### Cutting performance per battery charge (steel 400 N/mm<sup>2</sup>)



### Included accessories TruTool S 114

Cutter (integrated), screwdriver Torx, 2x batteries 12V LiHD 4.0 Ah, charger LG 12V–36V, belt clip, TRUMPF Box S1

### Included accessories TruTool S 160

Cutter (integrated), hex head wrench DIN 911-2 and 911-3, 2x batteries 12V LiHD 4.0 Ah, charger LG 12V–36V, belt clip, TRUMPF Box S2

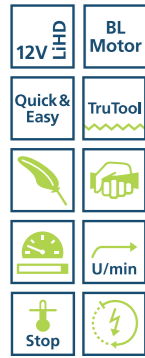


Technical data			
Max. sheet thickness		TruTool S 114 LiHD 12V	TruTool S 160 LiHD 12V
Steel 400 N/mm <sup>2</sup>	mm	1,6	1,6
Spiral ducts steel 400 N/mm <sup>2</sup>	mm	4 x 0,75	
Steel 600 N/mm <sup>2</sup>	mm	1	1,25
Spiral ducts steel 600 N/mm <sup>2</sup>	mm	4 x 0,5	
Steel 800 N/mm <sup>2</sup>	mm		1
Aluminium 250 N/mm <sup>2</sup>	mm	2,5	2,5
Working speed	m/min	6–13	5–9
Start hole diameter	mm		27
Smallest radius	mm	60	15
Minimal tube diameter	mm	50	
Throat depths	mm	30	
Tension	V	12	12
Weight (with LiHD battery)	kg	1,8	1,7
Length / height	mm	380 x 95	295 x 156



Slitting shear LiHD battery 12V (also available as body only machine)

# TruTool C 160/ TruTool C 160 with chip clipper



Perfect for **straight cuts and curves**



**Open cutting head:** simple retraction from the metal sheet

Ideal for **interior cutouts and notches**



**Chip clipper for two-handed operation.** Chips can be removed at any time.

**Included accessories**

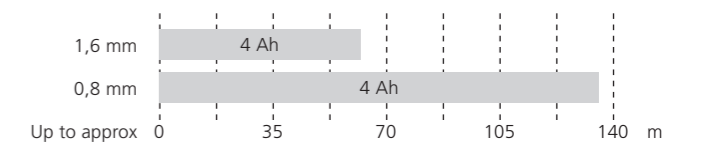
Straight cutter 1 - 1,6 mm (integrated), cut guides (integrated), hex head wrench SW 2.5, chip clipper (integrated by C 160 with chip clipper), 2x batteries 12V LiHD 4.0 Ah, charger LG 12V–36V, belt clip, TRUMPF Box S2

Technical data		TruTool C 160 LiHD 12V			
		TruTool C 160 with chip clipper LiHD 12V			
Max. sheet thickness		Straight cutter	Straight cutter	Curve cutter	CR cutter
		< 1 mm	1 – 1,6 mm	< 1 mm	0,5–1,2 mm
Steel 400 N/mm <sup>2</sup>	mm	1	1,6	1	1,6
Spiral ducts steel 400 N/mm <sup>2</sup>					4 x 0,9 / 6 x 0,6
Steel 600 N/mm <sup>2</sup>	mm	1	1,2	0,8	1,2
Spiral ducts steel 600 N/mm <sup>2</sup>					4 x 0,6
Aluminium 250 N/mm <sup>2</sup>	mm	1,2	2	1,2	2
Working speed	m/min	5–9	5–9	5–9	5–9
Start hole diameter	mm	15	15	8	15
Smallest radius (L / R)	mm	90/90	90 /90	48 /40	160 /160
Tension	V	12			
Weight (with LiHD battery)	kg	1,6			
Length / height	mm	357 x 88			

**Slitting shear TruTool C 160 + C 160 with chip clipper**

- Incredibly light and ergonomic tool, for work with reduced fatigue
- Depending on the application, you can choose between four different cutting blades
- Distortion free, high quality cutting
- Accurate starting and cutting
- High cutting speed
- Tool-free and fast exchange of the cutters
- No setup adjustments required

**Cutting performance per battery charge (steel 400 N/mm<sup>2</sup>)**





Nibbler / Profile nibbler LiHD battery 12V (also available as body only machine)

# TruTool N 160 / TruTool N 160 with extension



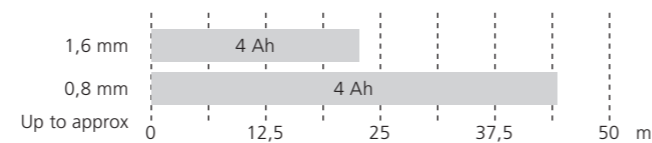
### Nibbler TruTool N 160 / TruTool N 160 with extension

- Round punch: for high curve flexibility
- Compact design and ergonomically shaped handle
- Tool-free tool, die and punch change
- Cold cutting process: distortion and spark-free cutting
- Cutting without feed force
- Clear view of the work surface
- Possibility to rotate 360°: 8 cutting directions with tool-free adjustment

### Included accessories

Punch (integrated), die (integrated), extension (for TruTool N 160 with extension), 2 x batteries 12V LiHD 4.0 Ah, charger LG 12V–36V, belt clip, TRUMPF Box S2

### Cutting performance per battery charge (steel 400 N/mm<sup>2</sup>)



Technical data			
Max. sheet thickness		TruTool N 160 LiHD 12V	TruTool N 160 with extension LiHD 12V
Steel 400 N/mm <sup>2</sup>	mm	1,6	1,6
Steel 600 N/mm <sup>2</sup>	mm	1	1
Steel 800 N/mm <sup>2</sup>	mm	0,7	0,7
Aluminium 250 N/mm <sup>2</sup>	mm	2	2
Working speed	m/min	2,2	2,2
Start hole diameter	mm	22	22
Smallest radius	mm	24	24
Tension	V	12	12
Weight (with LiHD battery)	kg	1,6	1,8
Length / height	mm	307 x 170	307 x 280



## Order numbers

Here you find your order numbers

Order numbers					
Cordless tools		Packaging: TRUMPF Box	DE / CH	GB	USA
18V	Shear	TruTool S 250 LiHD battery 18V	2525314	2534383	2534382
18V	Slitting shear	TruTool C 200 LiHD battery 18V	2525317	2534389	2534388
18V	Slitting shear	TruTool C 200 without tool LiHD battery 18V	2538012	-	-
18V	Slitting shear	TruTool C 250 with chip clipper LiHD battery 18V	2525315	2534386	2534385
18V	Nibbler	TruTool N 200 LiHD battery 18V	2525318	2534380	2534379
18V	Profile nibbler	TruTool PN 200 LiHD battery 18V	2525319	2534349	2534348
18V	Profile nibbler	TruTool PN 201 LiHD battery 18V	2525320	2534373	2534371
18V	Profile nibbler	TruTool PN 200 set (tool PN 200 and PN 201) LiHD battery 18V	2576814	2576816	2576815
18V	Power fastener	TruTool TF 350 with tilting arm LiHD battery 18V	2525341	2534924	2534923
18V	Power fastener	TruTool TF 350 without tool LiHD battery 18V	2537917	-	-
12V	Shear	TruTool S 114 LiHD battery 12V	2525346	2534320	2534319
12V	Shear	TruTool S 160 LiHD battery 12V	2525345	2534315	2534314
12V	Slitting shear	TruTool C 160 LiHD battery 12V	2525344	2534266	2534265
12V	Slitting shear	TruTool C 160 with chip clipper LiHD battery 12V	2525343	2534311	2534269
12V	Nibbler	TruTool N 160 LiHD battery 12V	2525347	2536307	2536306
12V	Nibbler	TruTool N 160 with extension, LiHD battery 12V	2538019	-	-
Body only machines		Packaging: TRUMPF Box or Cardboard box	TRUMPF Box	Cardboard box	
18V	Shear	TruTool S 250 LiHD battery 18V	2534384	2576983	
18V	Slitting shear	TruTool C 200 LiHD battery 18V	2534390	2576986	
18V	Slitting shear	TruTool C 250 with chip clipper, LiHD battery 18V	2534387	2576984	
18V	Nibbler	TruTool N 200 LiHD battery 18V	2534381	2576982	
18V	Profile nibbler	TruTool PN 200 LiHD battery 18V	2534350	2576813	
18V	Profile nibbler	TruTool PN 201 LiHD battery 18V	2534374	-	
18V	Profile nibbler	TruTool PN 200 set (tool PN 200 and PN 201) LiHD battery 18V	2576817	-	
18V	Power fastener	TruTool TF 350 con braccetto ribaltabil, LiHD battery 18V	2534925	-	
12V	Shear	TruTool S 114 LiHD battery 12V	2534341	2576950	
12V	Shear	TruTool S 160 LiHD battery 12V	2534316	2576948	
12V	Slitting shear	TruTool C 160 LiHD battery 12V	2534267	2576946	
12V	Slitting shear	TruTool C 160 with chip clipper, LiHD battery 12V	2534312	2576947	
12V	Nibbler	TruTool N 160 LiHD battery 12V	2538016	2536308	
Starter Kit		Packaging: Cardboard box	DE / CH	GB	US
Starter-Kit 18V		1x charger LG 12V-36V, 2x battery 18V LiHD	2598816	2598820	2598818
Starter-Kit 12V		1x charger LG 12V-36V, 2x battery 12V LiHD	2598815	2598819	2598817
Charger and batteries		Packaging: Cardboard box	DE / CH	GB	US
Charger LG 12V-36V			2569784	2569786	2569785
Battery 12V LiHD 4.0 Ah				2598770	
Battery 18V LiHD 4.0 Ah				2598811	

# Our products are convincing

Extend the standard warranty of your machine to a 5-year warranty. Completely free of charge. The fastest and most convenient method of registering and getting the 5-year warranty is to go to [www.trumpf.com/s/warranty-powertools](http://www.trumpf.com/s/warranty-powertools). Our rechargeable batteries have a 3-year guarantee. There's no restriction on charging cycles and no need to register.

Maschine/Machine

**5** Jahre Garantie  
Years warranty

Akku/Battery

**3** Jahre Garantie  
Years warranty

## Legend

You can find the symbols on the machines pages:



**Battery technology**  
Cordless tools with 12V LiHD batteries.



**Light-weight**  
Low machine weight for low-fatigue work.



**Battery technology**  
Cordless tools with 18V LiHD batteries.



**Low-vibration**  
Minimal vibration values and highest user friendliness.



**Brushless motor**  
Low-wear and tear motor for maximum longevity.



**Softgrip**  
Ensures optimum and convenient machine control and minimizes vibration.



**Quick & Easy**  
Quick and easy tool change.



**Speed governor**  
Adjustable speed for material-specific working and perfect results (for 230 V).



**Several times rotatable**  
The cutters can be turned twice and ensure a long service life.



**Smooth start**  
Ergonomic work through smooth starting.



**Several times rotatable**  
The cutters can be turned 4 times and ensure a long service life.



**Overload protection**  
Protects the motor from over-heating.



**Rotating punch**  
Ensures regular wear and long service life.



**Restart protection**  
Prevents unwanted starting after power interruptions.

